CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, June 24, 1909.

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CONSTRUCTION NEWS.

Plans and Specifications on File.

*(*denotes that this work is advertised in Engineering News.)*

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RAILWAYS.

(denotes that this work is advertised in Engineering News.)*

ALTUS, ROSWELL & EL PASO.—Contracts will be let soon for about 700,000 cu. yds. of grading, principally earth work. As previously noted this railway is to be built from Altus, Okla., to Roswell, N. Mex., about 330 miles long. Ed. Kennedy is Pres., Altus, Okla.

ATCHISON, TOPEKA & SANTA FE.—A. H. CALKINS & CO., Los Angeles, Cal., have been awarded a contract to complete about 20 miles of railroad in the San Joaquin Valley, from Corcoran northerly, for the Santa Fe Company. The work will amount to between $45,000 and $50,000, it is stated.

BEAR CREEK & WESTERN.—Incorporated in Montana, with $10,000 capital and headquarters at Helena, Mont., to build from the terminus of the Northern Pacific Ry., at Bridger, Mont., in Carbon County, southerly and westerly through Bear Creek to Cooke City, Park County. The incorporators include J. G. Brown, W. Wallace, Jr., and H. K. Jones.

BOSTON & MAINE.—Contract for heavy constructive work incident to the abolition of the Boston & Maine R. R. grade crossing at Rollstone St. in Fitchburg, Mass., has been awarded to FLETCHER & LAHEY, of Chelmsford, Mass. The abolition of this crossing will complete the abolition of all grade crossings on the Fitchburg division between Lunenburg and Gardner.

CANADIAN NORTHERN.—Surveys are now being made for an additional 12-mile extension to the Rose du Lac branch in Northern Manitoba.

CHICAGO, MILWAUKEE & PUGET SOUND.—Announcement is made that general contract has been given to McINTOSH BROS., Milwaukee, Wis., to build branch lines as follows: "From the main line immediately west of the Missouri River in South Dakota, southerly, crossing the Moreau River and following Virgin Creek to the divide between the Moreau and Cheyenne Rivers, thence westerly through the Cheyenne River Indian Reservation and Meade County, about 150 miles. From this line about six miles from the junction with the main line, westerly along the plateau between the Moreau and Grand Rivers, through the Cheyenne River Indian Reservation and Butte County, to Slim Buttes, about 150 miles. From the main line at McLaughlin, S. Dak., about 25 miles west of the Missouri River, north to a crossing of the Cannon Ball River in North Dakota, thence westerly and northwesterly along the north fork of the Cannon Ball River to the western boundary of Hettinger County, about 130 miles." Noted on April 8.

CONNELL & NORTHERN.—This road is to be constructed by the Northern Pacific Ry., it is said, from Connell, on the Northern Pacific, in Eastern Washington, to Adrian, on the Great Northern Ry. Right-of-way is secured. Company has been incorporated with $50,000 capital stock, and with headquarters at Tacoma, Wash. Company plans to build a branch to Ritzville and Tokio, Adams County. The incorporators are H. C. Nutt, F. S. Jarvis and J. L. Taggard, of Tacoma. It is reported that the contract for construction of 65 miles of track from Adrian to Connell has been let to CAUGHREN, WINTERS, SMITH & CO., of Seattle, Wash. This branch will cost $500,000.

DAKOTA SOUTHERN.—Financial arrangements are now being made to complete construction of this railway, and for equipment. Preliminary surveys and some of the right-of-way has been secured. The projected route is from Williston, N. Dak., on the Great Northern, southeast to Dickinson; also from Minot southwest to Dickinson, thence south, crossing the Chicago, Milwaukee & Puget Sound at Reeder, N. Dak., to Rapid City, S. Dak. Contracts are to be let in July for grading. It is planned to commence work about July 10, and it is expected to finish 510 miles within a year. Chas. F. Merry, Mgr., Dickinson, N. Dak.

GRAND TRUNK PACIFIC.—Company has awarded the contract for the construction of the branch from Melville to Regina, Sask., approximately 100 miles, to McMILLAN BROS. & KENNY, Winnipeg, Man. The contract for the branch from Melville to Yorkton, Sask., 30 miles, has been let to RIGBY & HYLAND, Winnipeg, Man. Both contracts will be rushed to completion.

GREAT NORTHERN.—This company has filed with the Secretary of State, Olympia, Wash., a certificate that its directors had passed a resolution ordering construction and operation of a branch to begin near Wenatchee and thence northerly and northeasterly along the Columbia River through the counties of Chelan and Douglas to the junction of the Okanogan and Columbia Rivers, and thence along the Okanogan to a connection at the present Great Northern branch at Oroville, in Okanogan County, a distance of about 134 miles. A. Stewart is Asst. Ch. Engr., Seattle, Wash.

GULF & NORTHWESTERN.—Contracts probably will be let in about 60 days for building the first section of this line, which was fully noted last week. The projected route is from Goodland, Kan., on the Chicago, Rock Island & Pacific Ry., south via Sharon Springs and Tribune, to Syracuse, thence southwest to Liberal, continuing southeast through Oklahoma, via Woodward and Oklahoma City, to Dennison, Tex. J. B. Dyatt is Pres. and R. B. Ketchum is Ch. Engr., Goodland, Kan.

KARR, KESTER & SPEESE.—Plans are practically completed, it is reported, for the construction of a railroad line from Yuma, Ariz., through the Yuma Valley of the Colorado River to the Mexican line, to be eventually carried through to the Gulf of California, with a probable terminus at Guaymas. The road will be called the Karr, Kester & Speese R. R., and will be constructed by the firm of Karr, Kester & Speese, of Yuma, Ariz.

MEXICO.—A concession has been granted to F. S. Pearson, 25 Broad St., New York, for the construction of a new line of railway running from Ciudad Juarez through Galeana and Terrazas to Chichuapa, in the state of Chihuahua.

MISSOURI RIVER RY. (of North Dakota).—Incorporated in Montana by Howard Elliott, Thomas Cooper, Emerson Hadley and others, of Helena, Mont. Capital, $300,000. Company proposes to construct a line from the south line of the state of North Dakota, near Fort Buford, up the Yellowstone River to Gledive, Mont. This road will open up a fertile agricultural country.

MONTANA WESTERN.—We are officially advised that this company proposes to build a railway from Conrad, Mont., to Valier, 20 miles. Work is being done by force account. Twelve miles are graded and six miles of track have been laid. W. S. Cargill is Pres., La Crosse, Wis. J. B. Bond is Ch. Engr., Conrad, Mont. Noted on May 27.

NATIONAL RYS. OF MEXICO.—Survey is reported to have been made for a proposed branch line that is to be built from Nuevo Laredo, situated opposite Laredo, Tex., to a connection with the Monterey-Matamoras line of the system at Valadezes. The route of the proposed road is down the valley of the Rio Grande. The line will be about 150 miles long. L. Kingman is Ch. Engr., Mexico City.

PARIS & MOUNT PLEASANT.—Chartered in Texas, with $75,000 capital, to build a railroad from Paris to Mount Pleasant, Tex., 50 miles. Surveys are now being made and right-of-way secured. R. F. Scott is Pres., and N. H. Ragland, Secy., at Paris, Tex.

PENNSYLVANIA R. R.—Plans are under way for elevation of tracks of this company

and the elimination of grade crossings in Wilkinsburg, Pa. Estimated cost is $5,000,000. This includes the erection of a passenger terminal to replace the present structure, elevation of tracks, changing grades of streets, purchase of necessary property and damage to property. About three years will be required to complete the improvement. There will be a large amount of concrete and structural steel work and it is expected that contracts will be awarded as soon as the plans are approved by the higher officials.

ST. LOUIS, OKLAHOMA & TEXAS.—M. J. Healy, care of the Commercial Club, Tyler, Tex., wishes to hear from construction companies and contractors who will furnish bond for $100,000 to build the first section of this railroad, 30 miles, from Tyler, Tex., north. W. J. Smith is Ch. Engr., McAlester, Okla.

SANDY RIVER & RANGELEY LAKES.—We are officially advised that this company will extend its line from Bigelow to Stratton, Me., about nine miles, this season. A preliminary survey was made last fall and the location survey is now under way. The work is light. Two small steel bridges, each about 50-ft. span, will be required. Henry F. Hill, Augusta, Me., is Ch. Engr.

SHAW & SOUTHWESTERN.—L. G. Dean, J. P. Sharp and J. C. Walker, of Shaw, Miss., have organized the Shaw and Southwestern Ry. Co. The plan of the promoters is to build a line of road southwest from Shaw, in Bolivar County, Miss., which is on the main line of the Yazoo & Mississippi Valley Ry., to Busey, also in Bolivar County, about six or eight miles southwest.

TOLEDO, ST. LOUIS & NEW ORLEANS.—Contracts probably will be let in July or August for building this line, which is projected from Carmi, Ill., south via Newhaven, Ridgway, Lawler, Karber's Ridge and Golconda to Brookport, with a branch from Golconda southwesterly to Thebes, a total distance of about 145 miles. Work will include four steel bridges and a 2,100-ft. tunnel. N. M. Burns is Pres., 1622 Peirce Bldg., St. Louis, Mo.

ELECTRIC RAILWAYS.

BOSTON, MASS.—A public hearing was given before the Board of Railroad Commissioners on June 14 on the petition of the Boston, Lowell & Lawrence Electric Railroad Co. Named in the agreement of association as directors in this company are Paul Butler, Butler Ames, Spencer Borden, Jr., Oakes Ames and John T. Burnett, who petition the Board to issue in their behalf a certificate of exigency that public convenience and necessity require the construction of an electric railroad between the points named. L. W. Tucker is Engr. Westinghouse, Church, Kerr & Co., 10 Bridge St., New York, have made complete surveys of the entire country to be traversed, and detailed plans have been filed at the Railroad Commission offices.

The Boston & Northern St. Ry. Co. has awarded contract to MICHAEL McDONALD, Boston, for building a line from Stoneham Square to Spot Pond, through the Middlesex Fells. H. E. Reynolds is Asst. Gen. Mgr., 84 State St., Boston.

MALONE, N. Y.—The Malone, Fort Covington & Hopkins Point Ry. Co. has commenced construction on its proposed 20-mile electric railway between Malone, Westville, Fort Covington and Dundee, Que. A power plant will be built three miles north of Malone. The repair shops will be located at Malone. Capital stock authorized, $200,000. J. H. Scott is Pres. and Gen. Mgr.; W. E. Smallman, Vice-Pres.; L. C. Haskell, Secy. and Treas.; A. A. Edwards, Supt. and Purchasing Agent; W. Smith, Engr.

ALBANY, N. Y.—The Champlain & Sanford R. R. Co. has applied to the Public Service Commission, Second District, State of New York, for the privilege of using oil-burning locomotives on its line instead of electricity, and also to be allowed to change its line to run from a point near Schroon Lake, east to a point near Addison Junction on Lake Champlain, instead of south to Riverside on the Adirondack Division of the Delaware & Hudson R. R. This change will necessitate new surveys which will be continued during the present summer, so that it will be impossible for the company to consider building before next spring. A. Thompson is Pres., Home Savings Bank Bldg., Albany.

LONG ISLAND CITY, N. Y.—The Public Service Commission on June 15 approved the franchise of the New York & North Shore Traction Co. for an extension of its street surface railroad from the New York city line at Little Neck to and into Flushing, and from Chestnut St., Flushing, to Whitestone, L. I. The company already had a line of street surface railways operating in Nassau County between Mineola, Roslyn and Port Washington. It has filed with the Secretary of State the proper certificate of extension, and has received the consent of the local authorities for the construction of an extension of its line from Roslyn along Broadway to the easterly boundary line of Greater New York City. The company has also received from the Board of Estimate and Apportionment the necessary consents of the local authorities for the extension of its line in the Borough of Queens from the city line at Little Neck through Bayside to Main St., Flushing, and also for a branch line extending from a point in Chestnut St. opposite Central Ave. to Whitestone. Estimated cost of new extension is $1,250,000. W. O. Wood is Gen. Mgr., 7 Borden Ave., Long Island City. The Long Island Elec. Ry. Co. is the successor to the New York & North Shore Ry. Co.

NEW YORK, N. Y.—The New York, New Haven & Hartford R. R Co., it is announced, plans to electrify its entire line from New York to New Haven. The electric zone now runs only to Stamford, Conn., a distance of 22 miles, over which there is a four-track road. Company also intends to electrify its Harlem River branch, which runs from the Harlem River, near Port Morris, through West Farms and Pelham Bay Park to New Rochelle, where it joins the main line. The company now has a power house at Cos Cob but probably will erect another to supply the current for the Harlem River branch. It will take from 12 to 18 months to complete the electrification of this branch. W. S. Murray is Elec. Engr., New Haven, Conn.

DUQUESNE, PA.—Work will soon be started on a 3-mile trolley road from Duquesne to Dravosburg. The company is known as the Duquesne & Dravosburg St. Ry. Co. The officers are Fred W. Scott, of Duquesne, Pres.; J. C. Cato, of Aliquippa, Vice-Pres.; T. F. Van Kirk, of Coraopolis, Secy., and A. J. Krill, of Aliquippa, Treas. The other directors are William J. Leader, J. W. Speering and M. G. Conlin, of Duquesne; A. C. Purdy, of Coraopolis, and Charles McGinley, of Indiana, Pa.

IRWIN, PA.—The Irwin & Herminie Traction Co. proposes to build an electric railway from Herminie to Irwin, four miles. Applicants for the charter are C. H. Bolton, I. H. Taylor, C. A. Thompson, Thomas P. Herron and John L. Pearce, of Irwin.

WAYNESBURG, PA.—The Waynesburg & Monongahela Elec. Ry. Co. has awarded to JOHN R. BENNETT, Fairmont, W. Va., the contract for grading 34 miles of its proposed line, from Waynesburg to Millsboro, with a branch to Carmichaels and Rices Landing.

FINLEYVILLE, PA.—The Finleyville Southern St. Ry. Co. has been chartered to build a 14-mile railway from Finleyville to Venetia and Bentleyville, crossing the Baltimore & Ohio R. R. by an overhead bridge. Capital stock, $84,000. H. B. Hayden is Pres. Other incorporators are: A. E. Hayden, T. M. Hayden, J. E. Hayden, S. C. Wilson, A. H. Anderson, Geo. Englert and Jos. R. Hayden. Noted on May 6.

WASHINGTON, D. C.—The Baltimore & Washington Transit Co. has let contract to ALLEN & KEFAUVER, Equitable Bldg., Baltimore, Md., for about two miles of single track line, with sidings from Takoma Park to 14th St. and Colorado Ave. extended. The District Commissioners have authorized this extension. The road must be completed by May, 1910, under act of Congress granting the franchise. The Baltimore & Washington Transit Co. has a state charter to construct a line not only to Baltimore, but also to Gettysburg. The officers and board of directors of the new road are as follows: Pres., Henry W. Williams, Baltimore; Vice-Pres. and Gen. Mgr., William A. Mellen, Washington; Secy., George J. Schadel, Baltimore; Treas., Norman M. Little, Washington; Syndicate Manager, Charles Selden, Jr. Board of Directors, Henry W. Williams, William A. Mellen, George J. Schadel, Norman M. Little, Howard Fisk, W. M. Terrell, and Dr. E. H. Leffler, Millersburg, Pa. Headquarters of company are at 713 14th St., N. W., Washington, D. C.

SALISBURY, N. C.—A franchise has been granted to N. B. McCanless, J. K. Link, C. L. Welch and J. B. Norwood for the construction of an electric railway from Salisbury to Faith via Granite Quarry, five miles south of Salisbury.

EVANSVILLE, WIS.—A mass meeting of business men and citizens was recently held here to assist in promoting a proposed interurban road from Freeport to Madison via Brodhead, Evansville, Stoughton and Lake Kegonsa. A meeting will be held in Janesville soon to perfect an organization. Mayor T. C. Richardson, C. J. Pearsall, P. C. Wilder, A. S. Baker, George L. Pullen, R. M. Richmond and Evan Patten were selected as a committee from this city to attend this meeting. It is proposed to equip the road with the gasoline motor cars.

MOUND CITY, ILL.—The City Council has granted to the Cairo & St. Louis Ry. Co. a 50-year franchise to build a street railway through Mound City. This proposed electric railway will extend from Cairo to Mounds, via Mound City.

ROSEDALE, KAN.—The Kansas City, Lawrence & Topeka Elec. Ry. Co. has been incorporated in Kansas to build an electric or steam railway between Topeka and Kansas City, 67 miles. Headquarters, 408 Gumbel Bldg., Kansas City, Mo. Capital stock, $1,000,000. Incorporators: R. W. Hocker, F. P. Dickson, J. A. Stewart, F. B. Glover, Kansas City, Mo.; D. B. Johnson and R. O. Larson; George Holsinger, Rosedale. Headquarters will be at Rosedale.

PLATTSMOUTH, NEB.—The Plattsmouth & Southwestern Interurban Ry. Co., of Plattsmouth, has been incorporated with a capital stock of $100,000. The company proposes to construct an electric interurban railway from Plattsmouth in a southwesterly direction through the towns of Mynard, Manly and Murdock. Surveys are to be started soon. The incorporators include Judge H. D. Travis, J. P. Falter and R. B. Windham, all of Plattsmouth.

ROLLA, MO.—The Missouri, Inland & Southern Ry. Co. has been incorporated with $400,000 capital stock. Construction work probably will be started by Oct. 1 on this new railway which is to extend from Rolla to Lecoma, Anutt, Lenox and Licking, a distance of about 40 miles. The railway will serve directly 200,000 acres of farming land and about 100,000 acres of heavy pine timber which at present is about 25 miles from a railroad. It is the intention to operate gasoline electric cars. Repair shops will be erected at Licking. E. E. Young is Pres. and Gen. Mgr.; A. H. Bradford, Vice-Pres.; E. C. Halbert, Secy.; D. M. Meadows, Treas. Hugh G. Palmer, Box 305, Aurora, Ill., is Ch. Engr.

WACO, TEX.—John W. Maxcy, of Houston, Tex., has been appointed Engineer to make a survey of the projected interurban line from Waco to Temple.

TACOMA, WASH.—Control of the Seattle-Tacoma Short Line has passed from the hands of Merle J. Wightman, of Seattle, and C. E. Muckler, of Tacoma, to E. J. Felt, of Tacoma, and H. A. Eastman, of Detroit, Mich., according to press reports. Arrangements for financing have been provided for and construction of the 30-mile railway between Seattle and Tacoma will be well under way this fall. A $3,500,000 bond issue at 6%, running 20 years, has been voted by the directors. The Fidelity Trust Co. will act as trustee.

PORTLAND, ORE.—Announcement is made that the Portland Ry., Light & Power Co. plans the following improvements: Sheds, foundry and repair shops, $500,000; cutting down bluff for same, unestimated; new plant above Cazedero, $2,500,000; extensions under recent franchise, $2,000,000; car barns at Sellwood, $85,000; club-house, $10,000; electric building, $250,000; steam station, $500,000. A. H. Richmond is Ch. Engr.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

WESTFIELD, MASS.—Bids are asked until noon, June 30, by the Selectmen of Westfield, for an extension to the power plant of the Westfield Gas & Electric Light Works. Bids must be for both 500 and 750-KW. and must include engine, dynamo, switchboard, exciter and condenser, and must be for the above and their installation on foundation made in accordance with specifications of the successful bidder. The engine may be either of the horizontal turbine or the cross compound type (reciprocating) engine. The floor area is 21 ft. in width and 36 ft. in length. George Pettibone, Westfield, is Mgr.

BOSTON, MASS.—Bids are asked until June 28, by Guy C. Emerson, Supt. of Streets, for lighting 14,000 street lamps.

PAWTUCKET, R. I.—We are officially advised that the Royal Weaving Co., Pawtucket, R. I., is about to build a power plant. The plans and specifications, prepared by Charles T. Main, Mill Engr. and Arch., 45 Milk St., Boston, Mass., call for a power house 98 × 64 ft., with basement, and boiler house 93 × 47 ft. The generator equipment is to consist of three 500-KW. Allis-Chalmers turbine units. In the boiler house will be installed four 350-HP. B. & W. boilers. The building is to be of brick with reinforced-concrete roof over the boiler house. The stack will be of red brick 175 ft. high with 8-ft. flue.

THERESA, N. Y.—The Hydro-Electric Power Co. will probably add to its plant in the near future one pair of twin water wheels and a generator. George P. Schwartz is Secy.

NEW YORK, N. Y.—Bids are asked until 2 p. m., June 30, by John H. O'Brien, Comr. of Water Supply, Gas and Electricity, for furnishing gas for and to the public lamps on the streets, supplying gas, etc., for new lamps when required, and for furnishing gas to public buildings from July 1, 1909, to Dec. 31, 1909, both inclusive, for the Boros. of (a) Manhattan, The Bronx, Queens and Richmond, and for (b) the Boro. of Brooklyn.

NEW YORK, N. Y.—Bids are asked until 11 a. m., July 6, by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, for installing electric light wiring, fixtures, etc., in classrooms Nos. 3, 7, 10, 14, 18, 29, 33 and 44, and fire signal system in Public School No. 16, on the northerly side of Wilson St., between Bedford and Lee Aves., Boro. of Brooklyn.

Bids are asked until 3 p. m., July 7, by JOHN W. BRANNAN, Pres. of the Bd. of Trustees, Bellevue and Allied Hospitals, for electric lamps.

FORT TOTTEN, N. Y.—We are officially advised that bids were received by Capt. W. E. Cole, Constr. Q. M., June 15, for the construction of an electric lighting system at Fort Totten. The contract has been let to COLBURN & COOKE, of Newport News, Va., at $15,374, for the entire work.

JERSEY CITY, N. J.—Bids are asked until June 30 .extension of date from June 23) by the new County Building Committee for furnishing and installing electric lighting fixtures for the new County Court House. Alexander J. Clements is Secy.; Hugh Roberts, Arch., 1 Exchange Pl., Jersey City.

PHILADELPHIA, PA.—Bids are asked until 11 a. m., July 24, by R. C. Hollyday, Ch. of Bureau of Yards and Docks, for three vertical, cross compound, condensing steam engines, etc., for United States Navy Yard, Philadelphia. Specifications are on file at the office of Engineering News, New York.

WADESVILLE, N. C.—Surveys have been completed, it is stated, for a water power plant near Wharftown. A. F. Lyman, of Lilesville, is Engr.

SUMTER, S. C.—John L. Alnutt and associates have secured a franchise for 50 years from the city of Sumter to construct gas works, and will receive bids for its construction complete. It will require about 20 to 25 miles of piping. A company will be formed with a capital of $50,000, with E. B. Wright, Pres., Boardman, N. C.; J. J. Alnutt, Vice-Pres. and Mgr., Sumter, S. C., and A. D. Turner, Secy., Boardman, N. C.

DOUGLASVILLE, GA.—CARTER & GILLESPIE, 40 North Broad St., Atlanta, have secured contract for constructing electric light plant, to cost $10,000.

JEFFERSON, OHIO.—The Jefferson Power & Improvement Co. proposes to generate electricity by water power; probable cost of work contemplated $125,000. W. T. Crasler, of Chickasha, Okla., is Engr.; D. E. McNeff is Pres.

INDIANAPOLIS, IND.—The Indianapolis Light & Heat Co. contemplates laying mains for supplying steam heat under downtown streets. C. C. Perry is Vice-Pres.

BRAZIL, IND.—Bids are asked by the Knight-Brinkerhoff Piano Co., until June 24, for constructing three buildings for a steam and electric power plant, to be built. Specifications for boilers, engines, dynamos will be ready for bids about July 1. H. B. McMillan is Arch.

IRONWOOD, MICH.—We are officially advised that Henry I. Lea, Consulting Gas Engr., The Rookery, Chica[illegible], has been retained by the Fyfe-Wa[illegible] interests to prepare plans and specifica[illegible] for the proposed gas works and dist[illegible] to be installed this summer [illegible] Hurley, Wis. Bids covering [illegible] street mains will be received [illegible] his office, Chicago.

MOUNT PLEASANT, Mi[illegible] The ordinance permitting the Chippe[illegible] Power Co. to enter this city with its w[illegible] to furnish light and power has passed t[illegible] by Council. The plan of the company is t[illegible] a series of dams in the Chippewa R[illegible] about 30 flowage rights and dam sites [illegible] held at option.

EAST ST. LOUIS, ILL.—T[illegible] Department of the Illinois Tr[illegible] neering System, of Champaign, Ill., is at wor[illegible] plans for a power plant to be built at [illegible] Louis on the lower side of the n[illegible] sissippi River bridge now in course o[illegible] truction. This plant, which will be the [illegible] on the system, is designed to supply [illegible] lines with current south of Springfi[illegible] At present the Riverton plant, near S[illegible] field, is furnishing the southern end of [illegible] system, but has been found inadequat[illegible] the new plant is to have a 10,000-H[illegible] capacity, which can be doubled. It is said [illegible] plans will be drawn also for the new st[illegible] louis station as soon as the site has be[illegible] selected. H. E. Chubbuck is Gen. Mgr., Champaign.

HURLEY, WIS.—See item under [illegible]ronwood, Mich.

NORTHFIELD, MINN.—Edw. [illegible] Burch, 1210 Guaranty Bldg., Minneapolis, Minn., is preparing plans and specifications for heating and lighting plant, for Carleton College. Cost, about $30,000. Harlan W. [illegible]age is Secy. and Treas.

AINSWORTH, NEB.—The Ainsworth Electric Light & Power Co. is reported to be having plans prepared for a power dam across Plum Creek, 30 ft. high.

VALLEY CITY, N. DAK.—The contract for erecting central power steam heating and lighting plant for Normal School has been awarded to ANDREWS HEATING CO., of Minneapolis, Minn., for $26,000. G. A. McFarland is Pres. State Normal School.

GREAT FALLS, MONT.—The Butte Electric & Power Co., of Butte, Mont., C. W. Wetmore, Pres., has acquired half of the $2,500,000 capital stock of the Great Falls Water-Power & Townsite Co., in which John D. Ryan and Thomas F. Cole are interested. The Great Falls company has installed a hydro-electric plant of 8,360 HP., and is now building a second plant of 36,000 HP., which will furnish power to the mines and smelters of the Amalgamated Copper Co. The acquisition of this Great Falls stock will give the Butte company a commanding position in the power development work now under way in Montana. The Butte company owns all of the capital stock of the Madison River Power Co., producing 15,000 HP., and now engaged in the construction of a third plant to develop about 20,000 additional HP.

McCURTAIN, OKLA.—The City Electric Light & Power Co. proposes to construct a plant at a cost of $8,000, it is stated. O. C. Gleim, of McCurtain, is Engr.; A. R. Brauham is Secy.

HOBART, OKLA.—The Oklahoma Midland Electric Ry. Co. has awarded a contract to the J. A. KAUFFMAN CO. for the construction of two 8,000-HP. water power plants.

WALLA WALLA, WASH.—It is reported that the North Western Gas & Electric Co. is planning the erection of a $100,000 power plant and a $30,000 office building. A. Welch, of Portland, Ore., is Mgr.

SALEM, ORE.—A contract for rewiring the State Capitol has been let to the PACIFIC ELECTRIC ENGINEERING CO. The price was $5,212. The other companies submitting bids were the West Coast Engineering Co., $5,474, and the Western Electric Works, $5,890. All are Portland, Ore., firms.

SAN FRANCISCO, CAL.—An electric, gas and power company, organized by Rudolph and Claus A. Spreckels, has been incorporated. The name of the company is the Municipal Light & Power Co. It is capitalized for $1,000,000, of which $500 has been subscribed, $100 by each of the five directors, who are Rudolph Spreckels, Claus A. Spreckels, Percival S. Scales, J. H. Sandford and Frank Harrold, clerks in the Spreckles office. An electric light plant known as the Spreckels plant has been in operation for some time on Jesse St., near 2d St., and recently has been enlarged. It has been supplying light to several of the Spreckels buildings, also to the Phelan Building, on Market St. and to adjacent hotels, and it is believed that this plant is the basis for the formation of the new company. The incorporation papers enumerate generally the purposes of the formation of the new company. Among them is that of acquiring, constructing and installing gas and electric plants; to distribute electric currents, gas, etc., for domestic and manufacturing purposes; to own and acquire franchises; to buy and sell real estate; to manage and enter into agreements to construct and operate overhead and underground pipes and cables.

SAN FRANCISCO, CAL.—We are officially advised that the E. KEELER CO. has been awarded the contract by the U. S. Government for boilers for three separate electrical installations at Pacific Coast fortifications. There will be two 100-HP. water-tube boilers for Fort Stephens, Ore., at the mouth of the Columbia River, about 110 miles west of Portland; two 150-HP. at Fort Casey on Puget Sound, about 40 miles north of Seattle; and two 200-HP. at Fort Scott for the Presidio which adjoins the city of San Francisco, Cal.

NEVADA CITY, CAL.—C. York and W. A. Lotspeich are interested in a project to develop electric power in Sierra County. They have taken up water rights to the extent of 15,000 ins. in the south fork of the North Yuba River, between Downieville and Sierra City. Two miles above Downieville they

have a dam in place, 21 ft. high, which stood the pressure of last winter perfectly. It will back the water up for a mile. The site for a large power-house on Durgan Flat has been selected. This will require 9,000 ft. of piping, giving a terrific water fall and pressure, or sufficient to generate 4,000 HP. Two generating machines of 2,000 HP. each will be installed. It is the intention of the company to begin building a power line to Allegheny and Forest City.

FORT DOUGLAS, UTAH.—Bids will be received until July 6 by J. W. Pope, Ch. Q. M., U. S. A., Denver, Colo., for furnishing electric current at Ft. Douglas for illuminating and small motor purposes. Distributing system will be ready for current about Jan. 1.

WINNIPEG, MAN.—It is proposed to construct a steam heat distributing plant to cost $500,000. W. E. Skinner, 518 Somerset Block, Winnipeg, is Consult. Engr.

*WINNIPEG, MAN.—Bids are asked until 11 a. m., Aug. 2 and Aug. 16, by the Chairman of the Board of Control, for the manufacture, delivery and erection of the hydraulic, electric and auxiliary equipment of the municipal generating station on the Winnipeg River. The specifications and plans are on file at the office of Engineering News, New York.

CLARESHOLM, ALTA.—The ratepayers have voted in favor of spending $76,000 for water-works and electric lighting systems.

GUADALAJARA, MEXICO.—The "Mexican Herald" states that a canal that will carry the waters of the Santiago River a distance of 26 kilometers and drop them 1,800 ft., thereby making it possible to develop at least 90,000 HP., is planned by the Pimentel-Cuesta interests. It is stated that the canal will be built by the Chapala Power & Irrigation Co., now being organized. This is the concern that will combine the Pimental street railway and electric light and power systems and the valuable water-power, irrigation and transmission concessions of Manuel Cuesta. The proposed canal would extend from the Juanacatlan Falls of the Santiago River to Las Juntas, a point a few miles northeast of this city where one of the Pimental power plants is now located. At Junanacatlan the Santiago River enters a barranca and between that point and Las Juntas drops more than 1,800 ft. The canal would follow one side of the barranca until Las Juntas was reached, when the waters of the river would be discharged on turbines far below. The estimated cost of the canal is $60,000 a kilometer. The power development plans now being formulated in connection with the organization of the new company include the transmission of current to Aguascalientes, Zacatecas and other cities and towns, and to a number of mining districts.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

HAVERHILL, MASS.—Bids for completing the southerly approach to the new highway bridge, in the Bradford district of the city of Haverhill, will be received by the County Commissioners of the County of Essex, Salem, until 10 a. m., June 28. The work will consist of about 42,000 cu. yds. of excavation, forming embankments, etc., and disposing of about 35,000 cu. yds. of material, the place of disposal to be furnished by the contractor, building roadways, sidewalks, gutters, fences, retaining walls, steps, sewers and catch basins, setting curbstones and cross-walks, loaming, etc., and rearranging and extending the northerly portions of Laurel Ave. and Blossom St., to connect with the new bridge. James P. Hale is Clk.

*HOLYOKE, MASS.—The Board of Public Works on June 18 awarded contract for erecting the new bridge over the first level canal in Sargeant St. to MICHAEL FITZGERALD, of Hoosic Falls, N. Y., the lowest bidder, at $6,700. The other bidders were as follows: United Construction Co., of Albany, $9,732; Rivers & Young, of Holyoke, $10,142; Canton Bridge Co., of Albany, $8,735; Walsh Holyoke Steam Boiler Works, $7,885. Because of failure to comply with the requirements of the call, the bid of Curtis & Dean, of Hartford, was rejected. The new bridge will be of reinforced concrete, 80 ft. long and 60 ft. wide, the full width of the street. It will replace a structure antiquated many years ago.

Same contractor was awarded contract for repairing the Dwight St. foot bridge over the Boston & Maine R. R.

DANBURY, CONN.—The New York, New Haven & Hartford R. R. Co., Edward Gagel, Ch. Engr., New Haven, has in contemplation, it is reported, the construction of a steel bridge over the railroad tracks at White St. Estimated cost, $45,000.

BROOKLYN, N. Y.—Bids were received on June 17 by J. W. Stevenson, Comr. of Bridges, New York, for construction of sidewalks, walls, railings, etc., in the connection with the trolley railway approaches to the Brooklyn Bridge, Boro. Brooklyn: Cooper & Evans Co., 220 Broadway, New York, $6,818; Crescent Construction Co., $8,359; Snare & Triest Co., $6,980; Haggerty Contracting Co., $7,198; Charles Meade & Co., $8,210; N. E. Construction Co., $8,954; Lafferty & Weir, $8,398.

ALABAMA, N. Y.—The West Shore Division of the New York Central R. R. Co. will build a 3-span double-track steel bridge across Tonawanda Creek at Alabama, on the section which it is double tracking between Buffalo and Rochester. George W. Kittredge is Chief Engr., New York.

HACKENSACK, N. J.—The contract for the construction of the Plank road bridge over Berry's Creek was awarded to the F. R. LONG CO., of Hackensack, at $89,700, by the Bridge Committee of the Board of Chosen Freeholders on June 14. The structure is to be 400 ft. long, of steel and concrete. The design is similar to that of the Court St. bridge over the Hackensack River. The A. E. Sanford Co., of Newark, bid $71,900, and the Schweirs Sutton Co., of New York, $74,300.

McKEESPORT, PA.—The construction of a bridge to open Sylvan Ave., from Weber Alley to Fifth Ave., is under consideration. Estimated cost, between $5,000 and $8,000.

MEADVILLE, PA.—Bids will be received until June 26 by the Board of County Commissioners, W. P. Benner, Chn., for constructing a 228-ft. double span truss bridge in Hayfield Township; also three bridges, one each in Vernon, Sudbury and Richmond Townships, all to have concrete floors.

PITTSBURG, PA.—Bids were opened at the office of the City Controller on June 2 for rebuilding river piers and erection of false-work for supporting the superstructure and general repairs to the South 22d St. bridge, to consist of about 183 M. ft. lumber, 283,000 lbs. structural steel, 107,000 lbs. cast steel, 820 piles, 2,100 cu. yds. masonry, 2,700 cu. yds. concrete masonry and 5,000 tons riprap. Contract has been awarded to the DRAVO CONTRACTING CO., Lewis Block, Pittsburg, at $128,544. Joseph G. Armstrong is Dir. Dept. Pub. Wks.

*PHILADELPHIA, PA.—Bids for the construction of a steel bridge over the Schuylkill at Passyunk Ave. were opened on June 17 by the Assistant Director of Public Works. The lowest bidder was the Stroebel Steel Construction Co., of Chicago, Ill., at $313,000. The bids follow: Stroebel Steel Construction Co., $313,000, 12 mos.; the Penn Bridge Co., Beaver Falls, $313,740, 12 mos.; the Pennsylvania Steel Co., Steelton, $319,220, 13 mos.; the American Paving & Construction Co., $362,000, 12 mos., and the Owego Bridge Co., Owego, N. Y., $402,880, 18 mos. There is $350,000 available for the work. The bridge, which will have a total length of 1,310 ft., will consist of a number of truss spans and a double-leaf bascule span over the ship channel in the Schuylkill River. Between the trunnions, on which each leaf will turn when being raised and lowered for the passage of vessels, the bascule will have a span of 236 ft., which gives ships a clear waterway 200 ft. wide between the fenders fronting the concrete supporting piers. Over all the bridge will have a total width of 56 ft., affording a driveway 38 ft. wide of and two 9-ft. sidewalks. The floor of the bridge will be 33 ft. 9 ins. above the river at mean high water. Throughout its entire length the bridge will rest upon concrete piers, which have been constructed at a cost of $250,000.

WEST POINT, MISS.—Bids are asked by L. J. Howard, Clk., until July 5 for furnishing material and constructing a wooden bridge about 60 ft. long over Houlka Creek on Brand Road.

UPPER SANDUSKY, OHIO.—Bids will be received until June 30 by the Board of County Commissioners for furnishing material and constructing a 140-ft. span steel bridge over the Sandusky River in Pitt Township, known as the Koterman bridge; also separate bids for two stone abutments for the bridge. J. N. Traxler is County Audr.

TROY, OHIO.—Bids are asked until 10 a. m., June 26, by the County Auditor for constructing new steel bridges over Stillwater Creek.

CAMBRIDGE, OHIO.—Bids are asked by the Commissioners of Guernsey County until 11 a. m., July 20, for an iron or steel bridge to span Wills Creek, at the foot of Tenth St. in the village of Byesville, the bridge to stand on masonry now in course of construction.

LOGANSPORT, IND.—Bids are asked until July 7, readvertisement, by George W. Cann, County Audr., for reflooring bridge over south branch of Deer Creek with the A. F. Shuman bitumated sectional wood blocks.

SHELBYVILLE, IND.—Bids are asked by the County Commissioners until 10 a. m., July 10, for the construction of a concrete bridge at the Rushville Pike crossing. G. B. Hinliger is County Audr.

MARION, IND.—The Commissioners of Grant County are asking for bids for the construction of two new bridges, three concrete arches, a concrete abutment and the repair of several old bridges.

KENDALLVILLE, IND.—The County Commissioners have awarded contract for the construction of a 2-span bridge in Wayne Township to W. H. HILLS & CO.

GREENSBURG, IND.—A contract has been let by the County Commissioners to H. J. MOODY & SON, of this city, for the construction of a concrete arch bridge over Gas Creek, at $11,062.

*DANVILLE, ILL.—Bids are asked until 1 p. m., July 14, by S. K. Van Fleet, of Indianola, Ill., Clk. Bd. Comrs., for the construction of a steel bridge over the Little Vermilion River, of a span of 80 ft. (c. to c. of pins), with concrete abutments; also the construction of 2,530 cu. yds. of approach grade and 40 ft. of c.-i. pipe 41 ins. in diameter. Plans and specifications are on file in the office of Fisher & McCann, Engrs., Room 310 Garrett Bldg., 9 West Harrison St., Danville.

BEAVER DAM, WIS.—The WISCONSIN BRIDGE & IRON WORKS, Milwaukee, Wis., has been awarded contract for the construction of an iron bridge with concrete floors and abutments in this city.

MASON CITY, IOWA.—Bids will be received by the Board of Supervisors of Cerro Gordo County at the office of A. S. Clark, County Audr., until June 29 for an 80-ft. skew-span reinforced-concrete bridge, one retaining wall, etc.

TOPEKA, KAN.—Bids will be received by the Board of County Commissioners of Shawnee County, Topeka, until noon, July 2, for the construction of one 150-ft. span steel bridge of sufficient weight to carry concrete floor over Camp Creek, in Monmouth Township, according to plans and specifications on file in the office of S. G. Zimmerman, County Clerk.

MEXICO, MO.—The PAN-AMERICAN BRIDGE CO., New Castle, Ind., has been awarded contract, at $3,540, for constructing seven steel bridges for the County. The work includes two 45-ft spans, two 40-ft. spans, one 36-ft. span, one 30-ft. span and one 24-ft. span on steel legs, with 2½-in. white oak floor and backing. Bids were opened on June 8.

PIGGOTT, ARK.—Plans are on file at the office of Engineering News, New York, for the construction of a 100-ft. steel truss bridge over Quick's Creek, near Greenway. Bids are asked until July 3. J. D. Mitchell is Engr., Greenway.

LOS ANGELES, CAL.—Bids are asked until July 18 by the Board of Public Works for constructing a bridge over the river near Elysian Park, to connect Buena Vista St. with Downey and Pasadena Aves.

METAPEDIA, QUE.—Bids will be received by Napoleon Tessier, Secy. Dept. Pub. Wks., Ottawa, until 4.30 p. m., July 9, for the construction of highway approaches to the proposed bridge here. Plans and specifications may be seen at the offices of the resident engineers for the Dominion at Halifax, N. S.; St. John, N. B.; Montreal, Que.; Quebec, Que., and also at the department.

COBOURG, ONT, CAN.—The Provincial Department of Public Works, Toronto, Ont., have plans for two concrete bridges, 30 ft. wide, one with a 22-ft. span and the other with a span of 16 ft.

ARNPRIOR, ONT.—Bids will be received until July 3 for a steel bridge on concrete piers and abutments. Macallum & McAlister are Engrs., Continental Life Bldg., Toronto.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

FORT ANDREWS, (Boston post-office), MASS.—We are officially advised that bids were received on June 3, by Capt. R. H. Rolfe, Constr. Q. M., 263 Summer St., Boston, for the construction, including plumbing, heating and electric wiring of one brick guardhouse, brick quarters for four officers, brick quarters for field officers, at Fort Andrews, Peddock's Island, Boston Harbor, Mass. The contracts let were: Construction, HAPGOOD, FROST & CO., 199 Blossom St., Wellesley, Mass., at $40,575; plumbing, E. C. KELLY, 195 Center St., Roxbury, Mass., at $4,174.

NEW YORK, N. Y.—Bids are asked by John F. Ahearn, Pres. Boro. of Manhattan, until 10 a. m., July 2, for furnishing and erecting steel filing cases, new fireproof partitions and new ventilating system, etc., in the office of the Clerk of the County of New York, in rooms on the eighth and attic floors in the Hall of Records Building, Boro. of Manhattan, City of New York, and for other furnishings required for said floors; with the repairs and alterations, and the material and labor required for same; also for the extension to the electric lighting equipment, and for carpenter work, mason work, hardware, metallic and other furniture, electric light work, lighting fixtures, marble and bronze work, painting, plastering and other work required to be done in connection with and for purpose of furnishing and erecting such steel filing cases, new fireproof partitions, new ventilating system, etc., and such other furnishings required for said floors, as well as all other work to be done outside these rooms, as shown on plans, or as may be necessary to complete the work; all to be done in accordance with the specifications and drawings and details, prepared by Horgan & Slattery, Archs., 41 West 33d St., New York City, and completed under their supervision.

Carrere & Hastings, 28 East 41st St., Archs. for Col. John Jacob Astor, to show what changes the latter proposes to make in the city residence of the late Mrs. Astor at the northeast corner of Fifth Ave. and 65th St., have filed with Buildings Superintendent copies of the drawings of the late Richard M. Hunt, who designed the building, marked with the alterations which are to convert it into a single dwelling and which will chiefly have to do with remodeling the first and second stories. The architects estimate the cost of the alterations at $125,000, exclusive of the decorations.

York & Sawyer, Archs., 156 Fifth Ave., have filed with the Buildings Superintendent plans for a 6-story addition to the Grace Church Choir House at 86 Fourth Ave., in the rear of the church and adjoining the present choir house. It is to be of decorated marble, with tiers of Tudor bays of Gothic finish, harmonizing with the design of the old house. The addition will have a frontage of 20 ft. and a depth of 77 ft., and will contain a gymnasium on the fifth floor and a dining hall on the second, the other stories being fitted as bedrooms and an assembly or sitting room on the main floor. The building is to cost $40,000.

NEW YORK, N. Y.—Bids are asked by Robert W. Hebberd, Comr. of Public Charities, until 2.30 p. m., June 30, for providing all labor and materials necessary or required for the excavation, masonry, steel and iron work, roofing and metal work, carpentry, plumbing work, heating work, electric work and all other work except certain kitchen, service and lighting fixtures and refrigerators), as set forth in the drawings and specifications for the construction and entire completion of a dormitory for male inmates, a dormitory for female inmates and a pavilion for the insane at the New York City Farm Colony, situated on the property of the Department of Public Charities, on the north side of the Manor Road, Township of Castleton, Boro. of Richmond, the City of New York.

It has been announced that a theater would be erected by a company lately incorporated under the title of the New Netherland Theatre Co., William A. Brady, Pres. The theater will occupy the site of a church in 48th St., near Sixth Ave., the dimensions of which are 80 × 100 ft. It will have a seating capacity of between 1,400 and 1,500. More than $250,000 will be spent in building the theater, it is said.

A 12-story loft building will be erected at Madison Ave. and 27th St. by the Neptune Realty Co. The company is controlled by the Iselin estate, Adrian Iselin being Pres.; Columbus O'D. Iselin is Vice-Pres., and Ernest Iselin, Secy. Upon completion the building will be taken over, under a lease already arranged, by the Improved Property Holding Co., Henry Corn, Pres. The building will extend through to 23 and 25 East 26th St. Maynicke & Franke, Archs., 298 Fifth Ave., have prepared the plans for the new structure, which will cover a plot of about 15,000 sq. ft.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, for alterations, repairs, etc., at Public Schools Nos. 1, 3, 4, 7, 9, 11, 54, 113, Commercial High School, Girls' High School and Training School of Teachers, Boro. of Brooklyn; for alterations and repairs to heating and ventilating apparatus of Public Schools, Nos. 7, 23 and 62, Boro. of Manhattan; for alterations, repairs, etc., at Public School No. 113, at 7 Downing St., Boro. of Manhattan.

NEW YORK, N. Y.—Bids are asked until 2 p. m., July 2, by the Armory Board for all work and material required in furnishing improvements, repairs, etc., to the armory of the Second Company Signal Corps, N. G. N. Y., No. 801 Dean St., Boro. of Brooklyn; 2, for all work and material required in furnishing alterations, additions, etc., to the armory of the Seventh Regiment, N. G., N. Y., 66th St. and Park Ave., Boro. of Manhattan.

We are officially advised that the FOUNDATION CO., 115 Broadway, New York, has been awarded the contract for the pneumatic caisson foundations and all the work incidental to these foundations, for the Municipal Building, which is to occupy the site at the Manhattan Terminal of the Brooklyn Bridge. The depth of the piers will be at least 96 ft. below water and the quantities of caisson disposal and concrete put in are no doubt the greatest for any single building foundation. Work will be begun immediately.

COMSTOCK, N. Y.—The contract for the construction of the proposed prison, to be known as the Great Meadow Prison, at Comstock, N. Y., has been awarded to the HUDSON VALLEY CONSTRUCTION CO., of Troy, N. Y., by F. B. Ware, State Arch., Albany, the basis of the award being the actual cost of the work plus a percentage of profit to the contractor of 5% and a percentage to cover office expenses of 2%, or a total of 7%. It is expected that two buildings and a stockade will be built at once at a cost of about $250,000. The other bidders were: Wakeham & Miller, New York, profit, 6.5%; office expenses, 1%; total, 7.5%. J. G. White & Co., New York, profit, 5%; office expenses, 2.5%; total, 7.5%. A. E. Stephens & Co., Binghamton, N. Y., profit, 10%; office expenses, 5.5%; total, 15.5%. F. Gilbreth, New York, total, 17%. J. A. Calkin, Oswego, N. Y., profit, 17%; office expenses, 2%; total, 19%. It is expected work will be commenced about July 1.

RAYBROOK, N. Y.—The bids received on June 14 by F. B. Ware, State Arch., Albany, for the construction of hospital for tuberculosis at Raybrook, N. Y., were: Peter Keeler Building Co., Albany, N. Y., $197,822; Brown & Lowe, Schenectady, N. Y., $198,700; Mosier & Summers, Buffalo, N. Y., $203,000; H. Probst, 103 Park Ave., New York, $224,900; R. Richards & Son, Utica, N. Y., $225,960; Branch & Callanan, Saranac Lake, N. Y., $232,000; A. E. Stephens & Co., Albany, and Binghamton, N. Y., $239,700; Morris Kantrowitz, Albany, N. Y., $243,800; Richard J. Murtaugh, Malone, N. Y., $249,794; Merrill-Ruckgaber Co., 50 Church St., New York. The contract has been awarded to the PETER KEELER BUILDING CO., 468 Orange St., Albany, for $197,822.

BUFFALO, N. Y.—The St. Francis Roman Catholic Church Society will erect a new church on East St., near Hamilton St., to cost about $80,000. Rev. Charles Schaus, Pastor, 157 East St. Conrad May, 1875 Niagara St., Chn. Bldg. Com. Architect has not been selected.

ELMIRA, N. Y.—The plans for the new business block to be erected on the southwest corner of Lake and Water Sts., as prepared by J. H. Considine, Arch., 323 Carroll St., Elmira, have been accepted and the work of preparing the specifications and working plans are progressing to the extent that is expected the contract will be awarded and work started probably early in July. The building will be of a modern business design. It will have a frontage of 64 ft. on Water St., and 71 ft. deep toward the river bank. The design for the front on Water St., Lake St. and the river front will all be alike. The basement will be of concrete with foundations 10 ft. high and waterproof. In case of an overflow from excessive high water, large drainage pipes will be arranged to clear the basement.

JERSEY CITY, N. J.—Plans for the building to be erected at the corner of Washington and Montgomery Sts. for the Union Trust Co. have been completed and were accepted at a meeting of the Board of Directors. For the erection of this building a new company has been formed. It will be a permanent organization and will probably take contracts for other buildings now in prospect of erection in lower Jersey City. The building for the Union Trust Co. will be six stories high and is expected to cost in the neighborhood of $440,000. The building will be erected by a corporation known as the Trustee Company of New Jersey, with a capital stock of $420,000. John T. Rowland, Jr., 15 Exchange Pl., Jersey City, is Arch.

PHILADELPHIA, PA.—The Frankford Ave. Methodist Episcopal Church has had plans

prepared by A. A. Richter, of Lebanon, Pa., for a 1-story stone addition, 75 x 90 ft., to its church building at Frankford Ave. and Foulkrod St., to cost about $50,000.

Work will be started at once upon rebuilding the house of the Order of Eagles, at 1336-38 Spring Garden St., which was burned over a year ago. ALEXANDER CHAMBLEY, 243 South Tenth St., who has the contract for the work, has obtained a permit. The cost will be $60,000.

WOODVILLE, PA.—Bids are asked until noon, June 30, by R. J. Cunningham, County Controller, Pittsburg, Pa., for construction of three buildings as part of administration group at Allegheny County Home, Woodville, Pa. Andrew McMaster, Curry Bldg., Pittsburg, is Arch.

EBENSBURG, PA.—Bids are asked until 10 a. m., June 30, by the Commissioners of Cambria County, for the erection, construction, and completion of an addition to the County Jail at Ebensburg, Pa. Plans and specifications were prepared by Boyd & Hall, Archs., Johnstown, Pa. C. E. Troxell is Clerk.

HAGERSTOWN, MD.—The Congregation of Trinity Lutheran Church has decided to erect a church on a site at Potomac and Randolph Aves., and has awarded the contract for the erection of the new building to MARK T. WELLS, of Philadelphia, for $67,762. The plans were drawn by A. A. Richer, of Lebanon, Pa., who will superintend the construction. It is estimated that the cost of the building, with the furnishings and site, will be $95,000 or $100,000. A parsonage will be built on the same site in connection with the church. The style of architecture will be Gothic. The buildings will be constructed of granite and brick. The trimmings up to the water table will be of granite, and terra cotta above the water table. The tower has been planned for chimes, which will probably be put in. The church building will be 184 ft. long and the width at the tower section 78 ft. The auditorium will have a seating capacity of 800. The Sunday-school chapel will accommodate in several rooms more than 1,000 scholars. The Building Committee consists of Rev. Dr. J. S. Simon, Pastor; W. Wallace Stover, J. Frank Roessner, Albert Heard, W. B. Littleton, J. Oscar Beard, Samuel W. Sowers and S. H. Weihenmayer. The Financial Committee is composed of J. Harlan Smith, J. W. Myers, George E. Roulette, Charles J. Powles and Luther M. Watkins.

WASHINGTON, D. C.—Bids are asked until 3 p. m., June 30, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the approach work at the hygienic laboratory of the Marine Hospital Service, Washington.

NATIONAL SOLDIERS' HOME, VA.—Bids are asked until 1.30 p. m., July 13, by John T. Hume, Treas., Southern Branch, N. H. D. V. S., National Soldiers' Home, Va., for construction of two barracks and chapel.

WINSTON-SALEM, N. C.—We are officially advised that the Directors of the Wachovia National Bank have accepted the design for their new building as submitted by Milburn, Heister & Co., Home Life Bldg., Washington, D. C.

GULFPORT, MISS.—Bids were received as follows on June 21 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office building at Gulfport, Miss.: D. J. Phipps, Newport News, Va., $102,341; King Lumber Co., Charlottesville, Va., $115,000; Gude & Co., Atlanta, Ga., $104,000; George Moore & Sons, Nashville, Tenn., $98,980; Harry A. Bishop, Chicago, $111,975; Rubusch-Dabbs Co., Meridian, Miss., $131,724; Ambrose B. Stannard, New York, $114,790; General Contract Co., New Orleans, La., $104,888. Time, Aug. 1, 1910.

BATON ROUGE, LA.—The committee appointed recently by the Baton Rouge Bar Association has recommended to the Police Jury that bonds to the amount of $250,000 be issued for the building of a new court-house and jail.

OWENSBORO, KY.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., July 27, for the construction (including plumbing, gaspiping, heating apparatus, electric conduits and wiring, and a standard clock system) of the U. S. post-office and court-house at Owensboro.

LONDON, KY.—Bids were received as follows on June 16 at the office of James Knox Taylor, Supervising Arch., Treasury Dept., Washington, for the construction of a post-office building at London, Ky.: Alfred Struck Co., Louisville, Ky., $83,294; Hiram Lloyd Building & Construction Co., St. Louis, $90,000; McHenry-Beatty Co., East Liverpool, Ohio, $84,880; David Getaz Son & Co., Knoxville, Tenn., $96,900; Harry A. Bishop, Chicago, $84,000; King Lumber Co., Charlottesville, $93,000; James Devault & Son, Canton, Ohio, $85,147; Interstate Construction Co., Ltd., Saginaw, Mich., $88,932; D. J. Phipps, Newport News, Va., $83,795.

CLEVELAND, OHIO.—At a meeting of the Board of Directors of the Cleveland Athletic Club, held recently, J. Milton Dyer, Cuyahoga, Bldg., was appointed the architect for the proposed club-house of the C. A. C., to be built on Chestnut Ave., near East Ninth St. The building will cost $325,000, and the directors have voted to expend $50,000 on the furnishings. The lot on which it will stand cost $150,000, making a total cost of over $500,000. Work will begin in about two months or as soon as the detailed drawings can be completed. The building will be 110 x 132 ft. This will leave the club 72 ft. frontage which will be devoted to lawn.

A store and office building will be erected at a cost of $80,000 at the corner of Euclid Ave. and East 18th St. The structure is to be built by Henry T. Loomis, Vice-Pres. of the Spencerian Business College. The plans call for a 2-story building with 134-ft. frontage on Euclid Ave. It will extend 158 ft. in the rear to the front of the Spencerian Business College building. The foundations will be constructed to permit of the addition of eight stories. The upper floors will be added as the need for them arises. There will be seven stores on the first floor. On the second floor will be office rooms so arranged that they can be connected readily with the stores down stairs. The building will in no way interfere with the college. There will be an arcade entrance to the college through the building.

BRAZIL, IND.—See item under Light and Power Plants.

EVANSVILLE, IND.—The Intermediate Life Insurance Co. is preparing to ask for bids for the erection of a large office building. Estimated cost, $250,000.

ANDERSON, IND.—Shepherdson & Hawkins, of this city, are the lowest bidders for the construction of a new high school building, at $131,675.

INDIANAPOLIS, IND.—Bids are asked by the School Commissioners at the office of John E. Cleland, Business Dir., 312 North Meridian Ave., until 1 p. m., July 2, for the erection of a school building at the corner of Morris and Kappes Sts., in the city of Indianapolis, in accordance with the plans and specifications for the same in the office of R. P. Daggett & Co., Archs., Marion Block.

Mrs. Margaret Bruer will ask for bids for the erection of addition and making improvements on the store rooms and Manzanola flats in East Washington St., as soon as plans can be made.

Bids are asked by John E. Cleland, Business Dir. of the School Bd., until 1 p. m., July 2, for the construction of a 6-room brick school house at the corner of Tenth and Dearborn Sts.

DECKER, IND.—A. C. Sisson has ordered plans for the erection of a brick business block. The trustees of the local lodge of I. O. O. F. have ordered plans for a brick business and lodge hall block. Bids will be in order for both buildings soon.

NEW CARLISLE, IND.—Bids are asked by B. A. Tarroutte, Township Trustee, until July 8, for the construction of a 2-story school building, 82 x 81 ft., including wings and extensions, and to be of brick and stone with an alternative plan of brick and concrete, and bids will be received for both, as per plans and specifications. H. H. Richards, 134 Van Buren St., Chicago, Ill., is Arch.

BLOOMFIELD, IND.—Bids are asked until June 30 by Herbert L. Bass, Arch., Commercial Club Bldg., Indianapolis, Ind., for constructing a library building.

CRAWFORDSVILLE, IND.—Commissioners of Montgomery County have ordered plans and will soon ask for bids for the remodeling of the court-house.

NORTH CHICAGO, ILL.—We are officially advised that the contract for construction of the buildings comprising the hospital group at this station has been awarded to the only bidder, the NOEL CONSTRUCTION CO., Stock Exchange Bldg., Chicago, Ill., at its bid price of $310,000.

CHICAGO, ILL.—Steger & Sons, piano manufacturers, have obtained the building permit for their office structure, which is in course of construction at the northwest corner of Wabash Ave. and Jackson Boulevard. The building is to be a 19-story structure and will cost $700,000. It will front 51 ft. on Wabash Ave. and 109 ft. on the boulevard. Work has progressed several weeks, the foundation work being near completion and soon to be in readiness for the steel framework.

The Chicago "Record-Herald" states that Harlow N. Higinbotham will be the head of the corporation to be organized within a short time as the Illinois Exposition Association, which will construct in Chicago a convention hall. The structure will cover the block between 39th and 40th Sts. and Michigan and Wabash Aves. It will be known as The Ampitheater, and will have a seating capacity, exclusive of the arena, of 35,000. Including the arena space, there will be room for more than 45,000. The building also can be used for spectacular productions and exhibitions. The Ampihitheater will be 600 ft. long, 340 ft. wide and 100 ft. high. Across the way the Illinois Exposition Association will construct another building to be used for the exhibition of manufactured goods throughout the year. It will extend from Michigan Ave. to Wabash Ave., and will be 350 ft. long and 80 ft. wide. The cost of sites and buildings will be $3,000,000.

Plans for the proposed home of the City Club, at 9 to 11 Plymouth Court, now under consideration by the members, show a 4-story and basement building. Pond & Pond, Steinway Hall, are Archs. The site, on which an option for a 99-year lease has been obtained, has a frontage of 50 ft. on the east side of Plymouth Court and a depth of 93 ft., with alleys on the north and east sides, and is a short distance south of Jackson Boulevard. The building will cost, it is estimated, about $60,000.

MILWAUKEE, WIS.—Ferry & Clas, Archs., 415 Broadway, Milwaukee, are preparing plans for an administration and a dormitory building to be erected by Milwaukee-Downer College, Miss Ellen Sabin, Pres. The Administration Building will be 50 x 120 ft., three stories high, with wing for assembly hall; dormitory, three stories high, 40 x 180 ft. The structure will be of red pressed brick construction, with stone embellishments. Construction work may not be commenced until spring of 1910.

Eugene R. Liebert, Arch., 105 Wisconsin St., has awarded mason contract on the proposed $100,000 warehouse and office building for Albert Trostel & Son, tanners, at Walnut and Commerce Sts., to GENERAL CONSTRUCTION CO., Hathaway Bldg., Milwaukee; iron work to the AMERICAN BRIDGE CO. It will be of reinforced concrete construction, steel-trussed and four stories high.

WAUWATOSA, WIS.—The Board of Trustees of the Lutheran Home for the Aged, Wauwatosa, Milwaukee County, Wis., Dr. H. Duemling, Pres., is raising a fund for the purpose of erecting an asylum or home. Estimated cost, $50,000.

*PLATTEVILLE, WIS.—Bids are asked until 3 p. m., July 26, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Platteville.

SHENANDOAH, IOWA.—Bids are asked until 3 p. m., July 21, by James Knox Taylor, Superv. Arch., Treasury Dept., for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Shenandoah.

ST. PAUL, MINN.—Bids are asked by the Soldiers' Home Board, L. F. Hubbard, city, Pres., until July 1 for the construction of a Doctors' and Nurses' Home at the Soldiers' Home at Minnehaha Falls, and also for a 3-story brick addition to hospital. A. F. Gauger, Bank of Minnesota Bldg., is Arch. Cost, $45,000.

SIOUX FALLS, S. DAK.—Postle, Mahler & Denson, Archs., St. Paul, Minn., are preparing plans for a 3-story pressed brick and cut stone, reinforced concrete wholesale building for O. S. Jones & Co., Sioux Falls, seed merchants. It will be 50 x 160 ft., having steam heating, electric lighting and elevator. Cost, $75,000.

ST. LOUIS, MO.—A fireproof office building will be erected on Realty Row. It will be located at 810-12 Chestnut St. and will cost more than $50,000. John S. Blake & Bro. Realty Co., 17 North Seventh St., negotiated the deal for the building, and when completed probably will occupy the ground floor. The structure will be erected by the Dulce Realty Co., a holding corporation, for a syndicate of which the Blake company is a part. It will be five stories high, 40 ft. front and 80 ft. long. A. B. Groves, Arch., 314 North Fourth St., prepared the plans and specifications and will have supervision of construction.

COLUMBIA, MO.—According to the St. Louis "Globe-Democrat," W. B. Ittner, Bd. of Education Bldg., St. Louis, has been chosen as architect and superintendent for the construction of the $80,000 high school to be built here this summer. His plans have been approved and construction will start as soon as the old building can be torn down. The building is to be 142 ft. front and about 140 ft. deep. It is to have auditorium, gymnasium, shops and laboratories.

SAN ANGELO, TEX.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has rejected as in excess of the appropriation all bids recently received for the construction of a post-office at San Angelo, Tex. The lowest bid, submitted on May 29, was that of John Bardon, of Fort Worth, Tex., at $126,900.

HOUSTON, TEX.—Plans for the Carter Building, to be erected at Houston, are on file at the office of Engineering News, New York. The AMERICAN CONSTRUCTION CO., of Houston, has the general contract.

DENVER, COLO.—H. M. Potter, who owns the lot on Glenarm St., between 18th St. and Broadway, will at once begin work of erecting a $75,000 hotel, five stories in height. This ground is 50x250 ft. in size.

TACOMA, WASH.—The Northern Pacific Ry. Co. is receiving bids for the construction of its proposed passenger station here. It will be three stories high, of pressed brick and cut stone, fireproof, with electric passenger elevators, concrete subway and baggage and waiting rooms. Cost, $300,000. W. L. Darling, St. Paul, Minn., is Ch. Engr.

VALLEJO, CAL.—July 19 has been set by the Supervisors of Solano County as the date when the five architects, who are drawing competing plans for the new $250,000 court-house for the county, and the $50,000 branch county jail in Vallejo, must have their drawings ready for submission. When the successful architect is named the Board will issue a call for a special election to bond the county for $325,000. The court-house will be located at Fairfield.

SAN FRANCISCO, CAL.—D. H. Burnham & Co., Merchants' Exchange Bldg., are the architects for the building to be occupied by Joseph Fredericks & Co. on the site of the old Pacific-Union Club at the northeast corner of Post and Stockton Sts. The building will have a frontage of 120 ft. on Stockton St. and 80 ft. on Post St., and will be six stories high, with a basement and mezzanine. The exterior will be of rose colored brick and white terra cotta, with first floor of large plate glass windows, set in ornamental iron frames. There will be an ornamental iron balcony at the sixth floor. The building will be supplied with one freight and two passenger elevators, and with a complete sprinkler system and vacuum cleaning plant. The entire store and upper lofts are to be occupied by Joseph Fredericks & Co. The interior will be finished in hard woods.

MARYSVILLE, CAL.—The plans of Walter S. Parker, Marston Bldgs., San Francisco, have been accepted for Marysville's proposed high school building, to cost $40,000. Clarence C. Cuff, of Sacramento, submitted successful plans for a grammar school building, to cost $25,000.

OAKLAND, CAL.—Contracts for constructing a banking building to cost $100,000 have been let by the Farmers 'and Merchants' Savings Bank. The building will be located at 13th and Franklin Sts., and will be constructed of Mante stone. Although divided into two stories only, the structure will be as high as an ordinary three-story building. Plans for the bank were drawn up by Sutton & Weeks, Mutual Savings Bank Bldg., San Francisco, and the contract, calling for exterior construction work to cost $81,174, has been awarded to the RICKON-ERHART CONSTRUCTION CO., 1859 Geary St., San Francisco. The work of construction will commence immediately. The main entrance to the building will be on Franklin St. A ladies' waiting-room, a cu[illegible]rs' meeting-room, safe deposit vaults [illegible] be included in the construction of the bu[illegible]g. It is expected to be ready for occu[illegible]y by Jan. 1 next. The interior furnish[illegible] of the bank will be of white marble and [illegible]hogany.

LOS ANGLES, CAL.—A 4-s[illegible] steel building, to cost $115,000, will [illegible] erected at 627, 629 and 631 South Broa[illegible] by the Co-Tenant Co., H. J. Goudge, [illegible]nge Bldg., Pres. It is intended to beg[illegible] construction by Sept. 1 and to complete t[illegible] building to later than March 1, 1910. P[illegible]ration for plans for the building has [illegible] begun by Dennis & Farwell, Archs., [illegible]er Bldg. The structure will cover a lo[illegible]ch has a frontage of 71 ft. on Broadwa[illegible] a depth of 144 ft. running back to [illegible]ed way, which is wider than an ordina[illegible]ley. The Co-Tenant Co. has a 50-yea[illegible] on the property, which is owned by [illegible] Lyman Farwell and Miss Howes.

Excavating has been begun [illegible]rding to the Los Angeles "Express," for [illegible]ction, at the northeast corner of Sixth a[illegible]rlington Sts., at a cost of about $55,000 [illegible] a 3-story and basement apartment buildin[illegible]r Frank C. Hill, Attorney, Los Angeles. [illegible] have been prepared by Otto H[illegible]cher, of Neher & Skilling, Pacific Electr[illegible]ding. The structure will contain 45 apartm[illegible]s of two and three rooms each. The arran[illegible]ent will be flexible, so that rooms can b[illegible]dded to or detached from apartments at [illegible]. Each will have a bathroom that will b[illegible]ccessible from a hallway, and each will include a kitchen. Practically every apar[illegible]ent will have a large bay window. The exterior design is a modern classic style of architecture. The exterior construction will be of plaster and the foundations and walls will be built of concrete. The lobby will have hardwood wainscot and floor, beam[illegible] panels, ornamental wood ceiling and large fireplace with tile ornamentations. At each end of the lobby there will be a stairway. A sun-room and hallroom will be constructed above the third floor. Above the front porch there will be a balcony, accessible from four apartments. The design of the floor plan is in the shape of the letter "H." In the rear of the building there will be a freight elevator, lockers and sinks. Hot and cold water will be supplied throughout the house, which will have steam heat and electric lights.

TORONTO, ONT.—Plans are being prepared for a 14-story business block to be erected on Terailey St. for George H. Gooderham, M. L. A. Estimated cost, $300,000.

WINNIPEG, MAN.—W. W. Blair, Arch., Northern Bank Bldg., has completed plans for the Kenmore Apartments, Ltd., for an apartment block to cost about $200,000.

BROWN & PARKER, contractors, have secured the contract for the erection of the Aberdeen School here. Price, $62,800.

The Public School Board has under consideration the erection of several brick and stone schools to cost approximately $70,000 each. R. H. Smith is Secy.-Treas.

WINNIPEG, MAN.—At a cost of $60,000 the congregation of Young St. Methodist Church will erect a new church building. Rev. Dr. Sparling is Pastor.

DAVIDSON BROS., contractors, of this city have been awarded the contract for 47 stations along the National Transcontinental R. R. between Winnipeg and Lake Superior Junction.

YORKTON, SASK.—Bids are asked by J. M. Clarke until June 25 for the erection of a stone and brick Presbyterian church here.

CALGARY, ALTA.—John Lineham, Okotoks, Alta., is having plans prepared for a 9-story business block to be erected on Eighth Ave.

WATER SUPPLY—IRRIGATION.

CHICOPEE, MASS.—The Board of Aldermen on June 7 voted to appropriate $28,000 for the installation of a water system at Fairview.

PITTSFIELD, MASS.—The Board of Aldermen on June 7 appropriated $20,000 for extensions to the water-mains.

*MANCHESTER, MASS.—Bids are invited by the Board of Water Commissioners for the purchase of any or all of the machinery now in commission at the pumping station. For details see advertisement in this issue.

NORWALK, CONN.—We are officially advised that bids were opened as follows on June 14 by the Water Department for constructing and completing a dam across the Silver Mine River at Brown's Mill, in the town of Lewisboro, N. Y.: Jobson & Hooker Co., 1170 Broadway, New York, $41,197; Pierson Engineering and Constructing Co., Bristol, Conn., $41,233; F. J. Boas, 14 South Broad St., Philadelphia, Pa., $43,513; Eldridge & Grannis, Ossining, N. Y., $43,971; Ryan, Unmack & Co., New Haven, Conn., $44,124; Coughlan & Sheils Co., 43 Tremont St., Boston, Mass., $45,767; Peter Sweeny, 26 Montgomery St., Danbury, $46,707; J. B. O'Rourke & Co., 184 Summer St., Boston, Mass., $48,075; Danatto Cuozzo, 630 Park Row Bldg., New York, $48,627; Daniel O'Connell Sons, Holyoke, Mass., $50,952; Merrill Ruckgaber & Co., 50 Church St., New York, $52,150; Gannung & Hoyt, Katonah, N. Y., $52,469; Allboro Construction Co., 28 Cortlandt St., New York, $53,206; Alfred Farley & Co., New London, Conn., $56,694; Shanley Morrissey Inc., 527 Fifth Ave., New York, $56,138; John O. Merritt Co., Portchester, N. Y., $62,119; Edw. B. Roberts, New Canaan, Conn., $63,612; D. F. Toomey, Norwalk, Conn., $67,881; B. N. Beard Co., Shelton, Conn., $91,120.

NEW BRITAIN, CONN.—The Board of Public Works, Edward Wiegand, Chn., has authorized the following work: Two additional filter beds in the town of Berlin, estimated cost, $8,500; additional settling tanks, estimated cost, $8,500; concreting bottom of present settling tanks, $4,000.

BROOKLYN, N. Y.—Bids are asked until 2 p. m., July 14, by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for fur-

nishing, delivering and laying water mains and appurtenances in Flatbush, Carlton, Vanderbilt and Atlantic Aves. and in Pacific St., Boro. Brooklyn.

BUFFALO, N. Y.—Bids for two 30,000,000-gallon pumps for the pumping station were opened by F. G. Ward, Comr. Dept. Pub. Wks., on June 16. The lowest bidder was the Holly Mfg. Co., Roberts Ave. and Clinton St., for $229,700. Other bidders were: The Bethlehem Steel Co., $250,000; Camden Iron Works, $270,000; Allis-Chalmers Co., $249,630.

*COHOES, N. Y.—The bids received by the Board of Water Commissioners on June 17 for the construction of the new filtration plant for the city, were: Norwood Engineering Co., Norwood, Mass., $141,500; NEW YORK CONTINENTAL JEWELL FILTRATION CO., New York, $137,250 (awarded contract); Roberts Filter Co., Philadelphia, Pa., $139,000.

NEW YORK, N. Y.—Bids were received as follows on June 16 by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for (a) furnishing all the labor and materials required to construct and erect a purification plant at Oakland Lake, Third Ward, Boro. of Queens; (b) hauling and laying water mains and appurtenances in the Boro. of Brooklyn: (a) Robertson & Gerhardt, 186 Remson St., Brooklyn, $25,354; T. M. McVeigh, $30,155; Fred. T. Ley., $25,983; Chas. E. Frazer & Co., $29,143; Hicks Johnson Co., $31,686; Kelly & Kelley, $34,897; Jas. Kelly, $25,993; Henry E. Fox, $34,740; Pease Bros., $28,403; Merrill-Ruckgaber Co., $28,701; (b) Robert Carter & Co., 551 Prospect Pl., Brooklyn, Section 1, $14,872, Section 2, $13,280; John J. Cashman, $18,858 and $12,306; Jas. Kelly, $15,664 and $10,240; Murphy Bros., Bay 25th St., Brooklyn, $22,135 and $9,149 Henry E. Fox, $15,582 and $9,718; Newman & Carey, $16,466 and $9,368.

NEW YORK, N. Y.—Bids are asked by John H. O'Brien, Comr. Water Supply, Gas and Electricity, until 2 p. m., July 14, for furnishing all labor and materials required and constructing and installing two direct-connected, electrically-driven, vertical pumping units, complete with all appurtenances, including electric lighting installation, in the pumping station to be erected for the sewage disposal plant at the Village of Mount Kisco, Westchester County, New York.

GOWANDA, N. Y.—Bids will be received by the State Commission in Lunacy until 3 p. m., July 7, for the construction of reservoir for water storage, including piping and connections, and also for three horizontal tubular boilers, at the Gowanda State Homeopathic Hospital, Gowanda. F. B. Ware is State Arch.

*BURLINGTON, N. J.—Bids are asked by the Board of Water Commissioners until 3 p. m., July 26, for the erection of a mechanical filter plant of concrete construction; capacity, 3,000,000 gallons for 24 hrs. George A. Allinson is Supt.

HOBOKEN, N. J.—Bids were opened on June 7 by the Board of Water Commissioners, Edward Carroll, Pres., for laying a 16-in. water main in 15th and Madison Sts., as follows: E. M. Mullin, $15,395; Patrick Connelly, $15,682; P. J. Heagney, $17,300; T. Cavanagh, $18,333; Walter E. Stanton, $19,452.

*CLEARFIELD, PA.—Bids were opened on June 9 by the Clearfield Water Co., J. B. Nevling, Secy., for building a storage and distributing reservoir on Moose Run, with accessories. Bids were received on five different propositions as follows: (a) Moose Run reservoir with rubber core wall, (b) Moose Run reservoir with concrete core wall, (c) distributing reservoir, (d) distributing reservoir with (a), (e) distributing reservoir with (b); John C. Schrade, Williamsport, (a) $24,149, (c) $12,008, (d) $36,157; Hatton & Co., Dubois, (b) $30,235; G. W. Rockwell, Sunbury, (b) $21,957, (c) $12,153; Golden & Lansing, Troy, N. Y., (a) $35,322, (b) $35,322, (c) $13,641, (d) $48,963, (e) $48,962; W. W. Lindsay & Co., Philadelphia, (a) $29,000, (b) $29,000, (c) $15,000, (d) $41,900, (e) $41,900; Craig E. Nightingale, New York, (d) $44,011, (e) $43,736; C. A. Malone, Hollidaysburg, (a) $22,848, (b) $22,078; Read-Coddington Engineering Co., Niagara Falls, N. Y., (d) $47,325, (e) $48,975; Charles Dugan, Williamsport, (a) $26,125, (b) $26,950, (c) $13,571, (d) $39,696, (e) $40,521; William Sempson, Erie, (d) $38,000; William B. Hughes, Clearfield, (a) $21,462, (b) $21,187, (c) $10,647, (d) $31,834; Crosson Construction Co., Brownsville, (a) $29,168, (b) $29,168, (c) $15,677; Vipond Construction Co., Altoona, (a) $22,334, (b) $24,534, (c) $10,870, (d) $32,203, (e) $35,404; H. C. Dreher, Tamaqua, (a) $25,634, (b) $26,234, (c) $14,666, (d) $40,000, (e) $40,500; Frank Murphy, Altoona, (c) $11,488; A. L. Anderson & Bros., Altoona, (a) $29,671, (b) $29,671, (c) $11,605, (d) $41,277, (e) $41,277; Ahrens Construction Co., Lewiston, (b) $21,036, (c) $13,444. Knight & Hopkins are Engrs., Rome, N. Y.

*CHESTER, PA.—J. J. WILLIAMS & CO., 1828 West Fourth St., Chester, have secured contract for a portion of the work for the new Chester Water Co., bids opened May 24, to include a well 55 ft. diameter and 30 ft. deep to be lined with a 24-in. brick wall, laying 450 ft. 42-in. flange ball and socket pipe in Delaware River, and 230 ft. of 30-in. across Chester Creek, at about $32,000. Carnegie steel sheet piling will be used.

PITTSBURG, PA.—The Public Works Committee of Councils on June 9 recommended the following measures: Contracts be let for purchase and installation at the Southside pumping station of a traveling electric crane, $4,000; boilers and stokers, $20,000; two pumping engines, $180,000; electric light plant, $4,000, and pumping station, $7,000. N. S. Sprague is City Engr.

MILLVALE, PA.—Bids are asked by the Burgess and Town Council until 3 p. m., July 6, for furnishing and placing a 2,000,000-gallon pump at pumping station.

BRIDGEVILLE, DEL.—See item under Sewerage.

BALTIMORE, MD.—Bids will be received by the Board of Award until 11 a. m., June 30, for furnishing boiler for the high-pressure pumping plant of the Board of Fire Commissioners. J. Barry Mahood is Pres. Board.

*WASHINGTON, D. C.—Bids will be received by the Commissioners of the District of Columbia until noon, June 28, for c.-i. water pipe specials.

MOULTRIE, GA.—Bids are asked by the city until July 14 for material consisting of c.-i. pipe, hydrants and valves, tower and tank and pumping engine for the enlargement and extension of the water-works system. H. S. Jaudon is Engr., Box 582, Savannah, Ga.

TALLULAH, LA.—We are officially advised that this town expects to commence work about July 15 to construct by day labor a system of water-works and electric lights. Estimated cost, $21,000. J. E. Craig is Engr.-in-Charge.

*NEWPORT, KY.—Bids will be received by the Commissioners of Water-Works until noon, July 8, for furnishing all materials and constructing the following items for the Newport Water-Works: One 5,000,000-gallon, vertical, high duty pumping engine; laying about 13,050 lin. ft. of 20-in. c.-i. water pipe, including special castings, stop valves and connections; one steel stand pipe on steel braced tower. John W. Hill & Sons, are Engrs., 506 First National Bank Bldg., Cincinnati, Ohio.

ROCKPORT, OHIO.—Bids will be received at the office of the Clerk of the Board of Public Affairs until 3 p. m., July 2, for furnishing the labor and material necessary for the construction of a 12-in. water-main in Linndale Road and Settlement Road. William Dahm is Clk.

*DELTA, OHIO.—Bids are asked by the Board of Trustees of Public Affairs until noon, July 15, for the construction of a municipal water-works plant, with deep wells as a source of supply, and a distribution system consisting of about 5½ miles of c.-i. pipe from 4 to 10 ins. in diameter. W. C. Hoch is Clk. Bd. Riggs & Sherman Co. are Engrs., 613 The Nasby Bldg., Toledo, Ohio.

JASPER, IND.—Contract for constructing a concrete reservoir, bids opened June 7, has been awarded by the city to EDGAR TRAYLOR, of Jasper, at $7,816.

*NORWAY, MICH.—We are officially advised that contracts for additions to the gravity water-supply system have been awarded by the city as follows: Pipe line, to PRENDERGAST & FALLON, Chicago, Ill., at $24,171; concrete tank, to same firm, at $4,998; valves, to LUDLOW VALVE MFG. CO., Rookery Bldg., Chicago; meter, to BUILDERS' IRON FOUNDRY, Providence, R. I.,; for steel tank the following bids were received: John Striffer, Springfield, Ill., $6,900; Chicago Bridge & Iron Works, $4,670; Larry Hunt, Marinette, $4,150; Canton Boiler & Engine Co., $5,050; Fippett & Wood, Phillipsburg, N. J., $5,072; Marquette Boiler Works, (informal plan), $3,927; Des Moines Bridge & Iron Co., $5,160. John W. Alvord and Charles B. Burdick are Engrs., Hartford Bldg., Chicago.

NORTH CHICAGO, ILL.—Bids were received as follows on June 21 at the office of the Bureau of Navigation, Navy Department, Washington, for the construction of (a) a water-filtration plant and a sewage-disposal plant, as well as (b) and (c) for the two separately, for the Navel Training Station, Great Lakes, North Chicago, Ill.: Standard Construction Co., First National Bank Bldg., Chicago, (a) $70,500, (b) $37,700, (c) $34,800; James Corse, Racine, Wis., (a) $49,092, (b) $19,092, (c) $30,000; D'Olier Engineering Co., 121 South Eleventh St., Philadelphia, (a) $71,725, (b) $32,900, (c) $42,800; George R. Keachie, Madison, Wis., (c) $29,830.

WOODWARD, IOWA.—Bids will be received until July 7 by the city for the construction of water-works. Chas. Haworth, City Clk.

EAST GRAND FORKS, MINN.—The contract for water main extensions has been awarded by the city to G. W. HAGGERT, of Fargo, N. Dak., at $22,003. Bids were opened on June 7.

NEWMARKET, MINN.—Bids are asked until 3 p. m., June 24, by J. H. Baltes, Village Clk., for water-works, to include furnishing and laying about 25 tons of c.-i. pipe and five hydrants, 8-HP. gasoline engine and pump; also steel tower and tank and brick pumping station. J. J. Flather is Engr., Minneapolis, Minn.

JAMESTOWN, KAN.—Plans are being prepared by Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., for water-works and an electric light plant.

PLAINVILLE, KAN.—We are officially advised that T. C. BROOKS & SON CO., Jackson, Mich., were awarded contract on June 14 for the construction of water-works at $16,000. The PENN BRIDGE CO., Dallas, Tex., secured contract for the tank and tower at $2,253. J. H. Burkholder is Engr., Plainview.

ST. EDWARD, NEB.—We are officially advised that contract has been awarded by the village to T. C. BROOKS & SON CO., Jackson, Mich., for the construction of water-works here. Charles F. Sturtevant, Holdredge, is Engr.

LARAMIE, WYO.—The KENEFICK-QUIGLEY-RUSSELL CONSTRUCTION CO., 236 Equitable Bldg., Denver, Colo., has been awarded contract for building the Lake Hattie reservoir and irrigation system, which is to be constructed near Laramie. Lake Hattie, which will be used for the reservoir, is 23 miles west of Laramie, near the line of the Laramie, Hahn's Peak & Pacific R. R. It is a natural reservoir and when completed, will have a capacity of 160,000 acre-ft. The system will be constructed to irrigate 60,000 acres of land lying west of this city. The water will be taken from the Laramie River, through an intake canal to Lake Hattie, and thence distributed through a series of canals running eastward as far as this city. The work will cost about $1,000,000, which includes the cost of moving about 4,000,000 cu. yds. of earth, and placing 19,000 cu. yds. of concrete.

*CHEYENNE, WYO.—We are officially advised that bids were received at the office of J. D. Wright, City Clk., on June 15, for laying approximately five miles of 30-in., 16 miles of 20-in. and four miles of 16-in. c.-i. pipe, and doing all work necessary, to complete the water mains, such as ditching, laying, yarning, calking, backfilling, etc., in accordance with the specifications on file in the office of C. C. Carlisle, City Engr., monthly estimates to be allowed and pipe, lead and jute packing to be furnished by the city and the pipe distributed along the line: DOYLE & SCHWARTZ, of Colorado Springs, Colo., were awarded contract for laying 16-in. pipe at $6,324, and 30-in. pipe at $11,625. BASH & GRAY, of Joplin, Mo., secured contract for laying 20-in. pipe, at $33,306. J. D. Wright is City Clk.

CARTHAGE, MO.—The SHEFFIELD CAST IRON PIPE & FOUNDRY CO., of Sheffield, Ala., has secured contract for furnishing 2,632 tons c.-i. water pipe at $27.45 and $29.50 per ton. The contract for the hydrants and boxes and valves was let to the WESTERN VALVE CO., of Kansas City, Mo., and Hartford, Conn. Total amount of contracts, about $80,000.

CARTHAGE, MO.—Bids will be received by the Board of Public Works as follows: Until July 1, for three 250-HP. water-tube boilers; July 2, for two 2,000,000-gallon cross-compound condensing pumping engines; July 5, for laying water mains and construction of building, stack, etc. Specifications can be obtained from W. A. Turner, Secy. Bd. M. A. Earl & Co., are Engrs., Carthage.

GALVESTON, TEX.—Bids will be received until June 28 by the Board City Commissioners at the office of John C. Kelly, City Secy., for furnishing and delivering f. o. b. Galveston, 25 tons of 6-in. c.-i. water pipes, bell and spigot pattern, etc.

JACKSBORO, TEX.—Bids will probably be called for about Aug. 1 for water-works and sewer system. Estimated cost, about $35,000. J. P. Hackley, J. R. Lilly and D. R. Sewell are the committee which is now investigating the matter.

LEON SPRINGS, TEX.—Contract for a tubular well to be drilled at Leon Springs, and necessary work, has been awarded to J. W. JUDSON, of San Antonio, Tex., at $20,000.

PAWNEE, OKLA.—The GYP WATER FILTER CO., Oklahoma City, Okla., has been awarded contract at $20,000 for improving the water and light systems.

TACOMA, WASH.—Permits have been issued to the city for enlarging the Alaska St. reservoir for the middle service at a cost of $24,740, and for enlarging Hood St. reservoir for the low service at a cost of about $46,252. D. A. Williams will have charge of the work.

BAKER CITY, ORE.—It is proposed to construct a pipe line here to cost about $50,000. Bonds have been sold. James H. Nichols is City Audr.

SAN FRANCISCO, CAL.—Contract has been awarded by the Board of Public Works for 1,200 fire-hydrants to be installed with the auxiliary system of fire protection to the UNION IRON WORKS, 20th and Michigan Sts., at $143,688.

CLINTON, ONT.—Bids will be received by D. L. MacPherson until 8 p. m., June 29, for the following sections of the proposed water-works system: (a) pipe laying, (b) pump house, (c) water tower, (d) c.-i. pipe, (e) hydrants, valves, etc., (g) pumping machinery, (h) producer gas plant, (i) receiving basin. Plans and specifications may be seen at the office of the Municipal Clerk and also at the office of Willis Chipman, C. E., 103 Bay St., Toronto.

NORTH BATTLEFORD, SASK.—Bids are asked by S. Cookson, Secy.-Treas., until 8 p. m., June 2, for the following works in connection with the proposed water-works system: (a) excavating and pipe laying, (b) erection of pump house and power house, (c) furnishing and erecting steel stand-pipe and concrete foundation for stand-pipe, housing for stand-pipe, (d) furnishing c.-i. water pipe and special castings, (e) furnishing fire hydrants, gate valves and valve boxes, (g) furnishing and erecting pumping machinery, (h) furnishing and erecting boilers, (j) furnishing and erecting boilers, (k) furnishing and erecting electrical equipment. Plans and specifications may be seen at the office of Willis Chipman, C. E., Ch. Engr., 103 Bay St., Toronto, and also at the municipal offices here.

CLARESHOLM, ALA.—See item under Light and Power Plants.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—Contract for sewerage work in Frankfort, Porter and Cottage Sts., bids opened on June 8, has been awarded to JAMES H. FERGUSON, of Dorchester, at $4,700. Guy C. Emerson is Supt. Sts.

PITTSFIELD, MASS.—The Board of Aldermen on June 7 appropriated $20,000 for the extension of the sewer system.

ROCKVILLE, CONN.—Contract for sewers in East and Hale Sts. has been awarded to JOHN MULLIGAN, of this city. There was one other bidder, the Kuhnley Heating & Plumbing Co.

*SOUTH NYACK, N. Y.—Bids were opened on June 10 by the Board of Trustees for the construction of seven sections of sewers, about 4,700 lin. ft. The bids follow: JOHN HEENEY, White Plains, N. Y., $7,138 (awarded contract); Charles Cooke, $8,207; Guissepe Tirenze and others, $10,465; Franklin Contracting Co., $13,750.

*AUBURN, N. Y.—We are officially advised that bids were received on June 15 by the city for the construction of the sewage disposal plant for the First, Sixth and Tenth Wards sewer district. The lowest bidders were Brayer Bros., of Auburn, at $44,441, including working days, and $43,441 not including working days. W. Thomas Wooley is City Engr.

*FORT HANCOCK, N. J.—Bids will be received at the office of Lieut. W. J. Hawkins, Constructing Q. M., U. S. A., until 2 p. m., July 16, for constructing a sewer outlet at Fort Hancock.

PITTSBURG, PA.—Bids will be received until 2 p. m., June 25, at the office of L. E. Chapin, Engr., 1017 Frick Bldg., for constructing a sanitary sewerage system and a sewage disposal plant.

GALLITZIN, PA.—Bids are asked until noon, June 24, by H. F. Conrad, Boro. Secy., for sewer extensions. D. W. Dillman is Engineer, Altoona Trust Bldg., Altoona, Pa.

LANCASTER, PA.—Bids will be received until June 29 by the Street Committee of City Councils at the office of J. H. Rathfon, City Comptroller, for constructing sewers in Rockland and three other streets.

*DORRANCETON (Wilkes-Barre post-office), PA.—We are officially advised that bids were received by the Town Council on June 15 for the construction of a main outfall sewer of reinforced-concrete pipe along and through lands of Benjamin Dorrance and others from Wyoming Ave. to the Susquehanna River. The bids follow: B. G. Coon Construction Co., Second National Bank Bldg., Wilkes-Barre, $29,028; D. M. ROSSER ENGINEERING & CONTRACTING CO., Kingston, Wilkes-Barre post-office, Pa., $28,947 (awarded contract); J. A. Harkness & Co., Wilkes-Barre, $30,380.

BRIDGEVILLE, DEL.—Bids for the construction of a sewerage and water system will be received until 8 p. m., July 6, by the Town Board. R. R. Layton is Secy. The Haas Engineering Co., are Engrs., Bulletin Bldg., Philadelphia, Pa.

DOVER, DEL.—Bids will probably be called for in about 30 days for sewer and paving work here. Estimated cost, about $150,000. George L. Watson is Ch. Engr. St. and Sewer Comrs.

WASHINGTON, D. C.—The Commissioners of the District of Columbia received as follows on June 21 bids for furnishing sewer pipe during the fiscal year 1909-10: (a) Glamorgan Pipe & Foundry Co., Lynchburg, Va.; (b) Lynchburg Foundry Co., Lynchburg, Va.; (c) U. S. Cast-Iron Pipe & Foundry Co., New York; (d) Camden Iron Works, Camden, N. J.; (e) Standard Cast-Iron Pipe & Foundry Co., New York: 3-in., (a) $20.90; (b) $29.85; (c) $30; (d) $40; (e) $33.82 4-in., (a) $25.42; (b) $25.80; (c) $25.90; (d) $26.25, (e) $27.10; 6-in., (a) $24.98; (b) $24.86; (c) $23.90; (d) $26.25; (e) $27.10; 8-in., (a) $24.57; (b) $24.80; (c) $22.90; (d) $26.25; (e) $27.10; 12-in., 20-in., 20-in., pipe shell, 92-100 thick, and 20-in., pipe shell, 1.03 thick, each, (a) $24.02, (b) $24.86; (c) $22.90; (d) $25.50; (e) $27.10.

MOULTRIE, GA.—Bids are asked by the city until July 6 for material for about seven miles of sewers. H. S. Jaudon is Consulting Engr., Savannah, Ga.

MIDDLETOWN, OHIO.—Bids are asked until noon, June 25, by the Board of Public Service, John Kunz, Clk., for constructing a pipe sewer in Curtis Ave. and in Grand Ave. The work includes 1,700 lin. ft. of 12-in. sewer, 214 lin. ft. 18-in. and 406 lin. ft. of 24-in.

TOLEDO, OHIO.—Bids are asked until noon, July 2, by the Board of Public Service Reynold Voit, Secy., for constructing 36-in. brick or concrete sewer to Delaware Creek. Work includes 3,555 lin. ft. 36-in. sewer pipe, nine manholes, eight inlets and 240 lin. ft. 12-in. pipe.

YOUNGSTOWN, OHIO.—Bids are asked until noon, June 25, by the Board of Public Service, W. H. McMillin, Clk., for labor and materials for sewering McKinley Ave., between Mahoning Ave. and south end of street.

JACKSON, OHIO.—Bids are asked until July 6, by J. W. Turner, Village Engr., for constructing about ¾ of a mile of lateral sewers. Estimated cost, about $3,000.

CLEVELAND, OHIO.—Bids were opened on June 17 by the city for the last three sections of the main intercepting sewer. John Wagner, Cleveland, was the low bidder on two of the sections, at $126,900 for section between E. 61st St. and E. 67th St., and $114,565 for that between E. 67th St. and E. 79th St. William Lehman was low bidder at $47,168 for the section from Marquette Ave. to E. 61st St. There were eight bidders. Bids for several small sewers were also opened.

LORAIN, OHIO.—Bids will be received by the Board of Public Service until noon, June 29, for furnishing the necessary labor and material for the construction sewers in various streets.

ANGOLA, IND.—The City Council has let the contract for the construction of the sewer here to MICHAELS & MINNICK, of Marion, Ind., at $27,742. Bids were opened on June 10.

SHELBYVILLE, IND.—The City Clerk is asking for bids for the construction of a sanitary sewer system here. Estimated cost, $60,000.

MARION, IND.—Bids are asked by the Board of Public Works until 9.30 a. m., June 29, for the construction of a sanitary sewer in Nebraska, Race, 36th and 37th Sts.

INDIANAPOLIS, IND.—The Board of Public Works on June 14 let the contract for 8,955 ft. of main sewer along Raymond St., from the first alley east of Shelby St. to the

east line of State Ave., to the JULIUS KELLER CONSTRUCTION CO., at $3.01 a lin. ft. B. H. Miller is City Engr.

RICHMOND, IND.—Bids are being asked for the construction of a large sewer between Sixth and Seventh Sts.

MARSHALL, ILL.—Bids will be received by the Board of Local Improvements until 2 p. m., June 30, for the construction of about 2.2 miles of reinforced and vitrified pipe sewers. M. Robert Paige, Terre Haute, Ind., is Engr.

LA CROSSE, WIS.—The Board of Public Works has awarded contract for constructing the Mill St. sewer to the THILL, MANNING & WHALEN CO., at $14,621.

PLATTEVILLE, WIS.—The O'FARRELL CONTRACTING CO., of Dubuque, Iowa, has secured contract for constructing pipe sewers here.

PLYMOUTH, WIS.—We are officially advised that bids were received on June 15 for a sewer system. Bid per foot includes pipe and specials, excavating, clay and gravel mixed. The bidders were: (a) W. A. Edgar, Cedar Rapids, Iowa; (b) H. O. Schaffer, Green Bay, Wis.; (c) N. Quinn, Madison, Wis.; (d) Robert Nelson, Racine, Wis.; (e) W. F. Reichert, Racine, Wis.; (f) Hachworthy Construction Co., Appleton, Wis.; (g) Ed. Bartlett, Watertown, Wis.; (h) James McCabe, Fond du Lac, Wis.; (i) William Simmonmeir, Plymouth, Wis.; (j) E. C. McConnell, Kenton, Ohio; (k) E. R. Harding, Racine, Wis.; (l) Ed. M. Shilson, Angas McLay, Manistique, Mich.; (m) William Hackworthy, Kaukauna, Wis.; (n) Herman Hoheuse, Milwaukee, Wis.; (o) F. H. Nakiliski, Milwaukee: Engineer's estimate, $15,666; (a) $14,684, (b) $13,966, (c) $15,087, (d) $14,811, (e) $14,053, (f) $13,524, (g) $13,199, (h) $14,747, (i) $18,667, (j) $9,259, (k) $11,762, (l) $13,857, (m) $11,964, (n) $17,700, (o) $18,959.

EAST GRAND FORKS, MINN.—The contract for two extensions to the sewer system here has been awarded to the G. W. TURNER IMPROVEMENT CO., Des Moines, Iowa, at $10,203. Loweth & Wolf, St. Paul, Minn., are Consulting Engrs.

AUBURN, NEB.—Bids are asked until June 25 by the City Clerk for constructing a sewer system and water-works. Burns & McDonnell are Engrs., Scarritt Bldg., Kansas City, Mo.

GLENDIVE, MONT.—Bids are asked until 10 a. m., July 6, by the City Council for the construction of a sewer about 2,660 ft. of 8-in., one combination flush tank and eight manholes. J. A. Slattery is City Clk.

LIBERTY, MO.—Bids are asked until 5 p. m., July 2, by E. H. Collins, City Engr., for constructing sewers in districts Nos. 1, 2, 3 and 4 and appurtenances.

GALVESTON, TEX.—A. S. Drewry, Supt. Water & Sewer Dept., in his annual report has recommended that a main sewer be constructed west of 33d St.

TACOMA, WASH.—The Commissioner of Public Works on June 12 awarded to the LISTER CONSTRUCTION CO. contract for the construction of a sanitary sewer in South 40th and 56th Sts., from Sheridan Ave. to Hosmer St., at $41,200. There were seven bidders. The City Engineer's estimate was $48,810.

SALT LAKE CITY, UTAH.—Bids will be received by the Board of Public Works until 8 p. m., July 2, for the work of constructing pipe sewer in sewer extension No. 218 in Earl's Court. L. C. Kelsey is City Engr.

TORONTO, ONT.—Bids were opened by the Board of Control on June 9 for constructing two sections of high level intercepting sewers. The contract has been awarded to JOHN WAGNER, of Cleveland, Ohio, as follows: For Section 4, length, 4,211 ft., $21.75 per ft., and for Section 5, length, 6,481 ft., $20.50 per ft. C. H. Rust is City Engr. Noted last week.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

CONCORD, N. H.—Bids are asked until 5 p. m., July 2, by A. W. Dean, State Engr., Concord, for macadam in Bedford and Allenstown.

NEW BRITAIN, CONN.—The Board of Public Works, Edward Wiegand, Chn., has ordered the following work: Macadamizing South High St.; Greenwood St., $3,666; Vine St., $4,766; South Stanley St., $3,050.

HARTFORD, CONN.—The following bids were received by the State Highway Commissioner for work in the town of Scotland, but the contract was not awarded: 2,950 lin. ft. of grading, including one 15-in. tile culvert and a concrete arch bridge and railing: Pierson Engineering & Construction Co., Bristol, $9,795 for grading and 30 cts. per lin. ft. for railing; Goodman & Trumbull, Litchfield, $10,130 and 30 cts.; Ahern Bros., Norwich, $12,254 and 65 cts.; A. Brazos & Sons, Middletown, $13,872 and 35 cts.; O. T. Benedict, Pittsfield, Mass., $14,000 and 40 cts.

HARTFORD, CONN.—The Board of Contract & Supply has awarded to A. J. LANGEFELD, of this city, the contract for laying curb and gutter on Prospect Ave. at $4,575, or $1.79 per lin. ft.

HARTFORD, CONN.—Plans for state road work have been received in the office of the State Highway Commissioner as follows: From McElroy & Kershaw, Engrs., 2,600 lin. ft. on Jump Hill, Easton; from C. G. Stiles, Engr., 3,500 lin. ft. in the town of Woodbury.

HARTFORD, CONN.—Contracts for the construction of state road work, bids for which were received on June 18, have been awarded by the State Highway Commissioner as follows: Town of Glastonbury, 5,200 lin. ft. macadam-telford and cobble gutters, to A. D. AMBROSIA & CO., Hartford, at $1.72 for macadam, $2.83 for telford and 57 cts. per sq. yd. for gutters. Other bidders were: Donahue Bros., Middletown, $2.19 and $3.17; A. Brazos & Sons, Middletown, $1.98, $2.50 and 75 cts.; A. E. Douglass, Glastonbury, $1.76, $2.70 and 65 cts.; R. B. Davis, Hartford, $1.78, $2.70 and 50 cts.; O. T. Benedict, Pittsfield, Mass., $1.95, $2.95 and 65 cts.; Pierson Engineering & Construction Co., Bristol, $2.20, $2.95 and 60 cts. Town of Essex, 5,722 lin. ft. macadam-telford, (a) macadam all trap rock, (b) macadam native stone, (c) telford with native stone, (d) telford with trap rock, (e) cobble gutters to PIERSON ENGINEERING & CONSTRUCTION CO., Bristol, (a) $2.24, (b) $1.60, (c) $2.56, (d) $1.95, (e) 50 cts. Other bidders were: Lane Construction Corporation, Meriden, (a) $2.74, (b) $2.26, (c) $3.04, (d) $2.76, (e) 75 cts.; B. D. Pierce, Jr., Co., Bridgeport, (a) $2.41, (b) $2.28, (c) $3, (d) $2.88, (e) 65 cts.; B. N. Beard Co., Shelton, (a) $2.74, (b) $3.25, (c) $2.74, (d) $3.25, (e) 50 cts.; A. Brazos & Sons, Middletown, (b) $4.98, (d) $5.22, (e) 75 cts.; Donahue Bros., Middletown, (a) $3.24, (b) $3.04, (c) $4.14, (d) $3.94. Town of Thompson, 12,350 lin. ft. gravel-telford, including one 15-in and three 18-in. tile culverts, (a) gravel 16 ft. wide, (b) gravel 14 ft. wide, (c) gravel-telford, (d) cobble gutters, to A. VITO ,Thompson, (a) 94 cts., (b) 89 cts., (c) $1.67, (d) 65 cts. Other bidders were: Ahern Bros., Norwich, (a) $1.20, (b) $1.12, (c) $1.45, (d) 75 cts.; A. Brazos & Sons, Middletown, (a) $2.10, (b) $1.90, (c) $2.40, (d) 75 cts.; Pierson Engineering & Construction Co., Bristol, (a) $1.36, (b) $1.33, (c) $1.75, (d) 50 cts. Town of Somers, 1,807 lin. ft. macadam-telford, including three 10-in. tile culverts, to AMOS BRIDGES' SONS, Hazardville, at $1.67 for macadam and $1.83 for telford. R. B. Davis, Hartford, was the only other bidder, at $1.76 for macadam.

HARTFORD, CONN.—Bids for the construction of state road work will be received at the office of the State Highway Commissioner, until 2 p. m., June 25, as follows: Town of Wolcott, 1,500 lin. ft. grading on the Southington Mountain Road; three sections of macadam, aggregating about 8,100 lin. ft., including one 18-in. and two 12-in. culverts in the town of Wallingford; two sections of grading, aggregating 4,100 lin. ft., in the town of Morris.

BUFFALO, N. Y.—The Park Commissioners on June 8 awarded to the BUFFALO PITTS CO., Fourth and Carolina Sts., contract for furnishing a new 15-ton steam road roller and repairing old 12-ton roller now owned by the department at $3,800. F. G. Ward is Comr. Pub. Wks.

ONEONTO, N. Y.—Bids will be received by the Board of Public Works, E. B. Holmes, Clk., until July 7 for paving Main St. with vitrified brick.

*NEWBURGH, N. Y.—Bids will be received at the office of D. J. Coutant, City Clk., until 5 p. m., July 12, for furnishing all materials and labor necessary for permanently improving by paving a portion of Broadway with vitrified brick. There are about 4,600 sq. yds. to be paved, curb to be reset, etc. W. J. Blake is City Engr.

NEW YORK, N. Y.—The Board of Estimate and Apportionment on June 11 authorized $3,000,000 corporate stock to cover the cost of repaving streets in the following boroughs: Manhattan, $1,000,000; Brooklyn, $1,000,000; Bronx, $350,000; Queens, $350,000; Richmond, $300,000.

NEW YORK, N. Y.—Bids are asked until 3 p. m., July 1, by the Park Board for furnishing and delivering 10,000 gallons asphaltic road oil (No. 1, 1909) for parks, Borough of The Bronx.

NEW YORK, N. Y.—Bids were received on June 15 by Louis F. Haffen, Pres. Boro. of The Bronx, for (a) paving with asphalt block and with granite blocks on a concrete foundation the roadway of East 176th St., from Arthur Ave. to the Southern Boulevard and setting curb when necessary; (b) paving with granite block pavement on a sand foundation the roadway of Longwood Ave., from the Southern Boulevard to Tiffany St., and Tiffany St., from Longood Ave. to the East River and setting curb where necessary; (c) regulating, grading, setting curbstones, flagging the sidewalk, laying crosswalks, building approaches and placing fences in East 210th St., from De Kalb Ave. to Wayne Ave.; (d) regulating, grading, building approaches, erecting fences, laying vitrified pipe, lumber, steel rods in place, constructing receiving basins and street (West Farms Road) to the Eastern Boulevard at Pelham Bay Park, except at Westchester Creek; (e) regulating, grading, setting curbstones, flagging the sidewalk, laying crosswalks, building approaches and placing fences in Longfellow Ave., from Lafayette Ave. to the New York, New Haven & Hartford R. R.: (a) Barber Asphalt Paving Co., 30 Church St., $28,435; Hastings Paving Co., 25 Broad St., $28,435. The lowest bids for the remainder of the work were as follows: (b) W. J. Fitzgerald, 547 West 45th St., $52,830; (c) J. C. Rogers, Jr., Concourse Ave. and 204th St., $7,899; (d) Watson Contracting Co., Aqueduct Ave. and 193d St., $86,195; (e) D. W. Moran, 562 Burnside Ave., $9,976.

BROOKLYN, N. Y.—The following were the lowest bids opened on June 16 by Bird S. Coler, Boro. Pres., for regulating, grading, curbing and laying sidewalks on the following streets and avenues, together with all work incidental thereto: (a) Bay Ridge Ave., from Fifth Ave. to 13th St.; (b) Mermaid Ave., from West 19th St. to West 37th St.; (c) Park Pl., from Utica Ave. to Rochester Ave.: Robertson & Gerhart Contracting Co., 186 Remsen St., (a) $14,446, (b) $11,442; (c) Conner Bros., $14,115.

BROOKLYN, N. Y.—Bids are asked by the Park Board, New York, until 3 p. m., July 8, for regulating, grading, paving with macadam pavement, etc., the Bay Ridge Parkway (Shore Road Extension), between Fourth and Fort Hamilton Aves., Boro. of Brooklyn.

BROOKLYN, N. Y.—Bids are asked by Bird S. Coler, Boro. Pres., until 11 a. m., July 7, for regulating and paving and repaving with asphalt and asphalt block pavement on a concrete foundation the roadways of various streets; also furnishing and delivering 150,000 gallons of asphalt and 150,000 gallons of tar road oil, regulating, curbing and laying sidewalks in East 20th St., from Ave. D to Newkirk Ave., together with incidental work.

*JERSEY CITY, N. J.—William Baker, 137 South St., Jersey City, wants to contract out about five miles of resetting and redressing curb, about five miles of repaving gutters with Belgian blocks. Also to hire about 20 good teams with bottom dumpers.

*ELIZABETH, N. J.—Bids will be received by the County Road Committee of the Board of Chosen Freeholders of the County of Union, at the Court House, Elizabeth, until 2.30 p. m., July 9, for the construction of a stone road with the second course of 'amiesite," beginning at South Ave. and extending to Raritan road. The length of the roadway between said points is about 9,982 lin. ft. The width of the stone work is 16 ft. F. J. Hubbard is County Engr.

*CAMDEN, N. J.—Bids are asked by the State Road Committee of the Board of Chosen Freeholders, until 11 a. m., July 12, for building a stone road 14 ft. wide from Coffins Corner to Gibbsboro, a distance of 2¼ miles, of either amiesite or asphalt macadam, in accordance with plans and specifications on file at the office of State Commissioner of Roads, Trenton, N. J., also at office of Clerk of Board. J. J. Albertson is County Engr.

*NEWARK, N. J.—Bids will be received by the Committee on Roads and Assessments of the Board of Chosen Freeholders of Essex County until 2 p. m., July 8, for grading and paving with bituminous telford pavement, river road in the town of Nutley, extending from the Belleville town line to the Passaic County line.

*BAYONNE, N. J.—Bids will be received until July 6 by the city for furnishing material and repaving Broadway, from First St. to Morris Canal bridge, about 78,200 sq. yds. Bids will be received on asphalt, bitulithic or bituminous concrete paving. F. W. Dalrymple is City Engr.

*FREEHOLD, N. J.—Bids are asked by the Monmouth County Board of Chosen Freeholders until 11 a. m., July 14, for the construction of a gravel road in the Townships of Shrewsbury and Wall. E. E. Throckmorton is Engr.

FREEHOLD, N. J.—JOHN GLEASON, Belmar, N. J., has been awarded contract by the Board of Chosen Freeholders, at $18,562, for the construction of a 3.8-mile gravel road between Holmdel and Red Bank. Bids for the work were opened on June 9.

MONTCLAIR, N. J.—JOHN DORIETY, 168 Ridge St., Newark, has been awarded contract at $35,046, for grading and paving Normal Ave. in Montclair and Cedar Grove. Bids were opened on June 7.

*LEECHBURG, PA.—Bids are asked by the Council until 7.30 p. m., July 6, for 4,460 sq. yds. brick or block paving; 3,280 lin. ft. sandstone or concrete curb; 1,230 lin. ft. 8-in. sewer pipe with house branches; 200 lin. ft. 6-in. sewer pipe with house branches; two manholes. Robert H. Wilson is Boro. Engr., Saltsburg, Pa.

MOUNT PLEASANT, PA.—Contract for $40,000 of street paving was awarded to TONY PIETRO & CO., of Morgantown, by the Council on June 15.

EAST BRADY, PA.—Bids will be received by the Borough Council until 8 p. m., June 28, for improving Water St., from Bridge St. to Brady St.; Brady St., from Water St. to Broad St.; Broad St., from Brady St. to Fourth St.; Fourth St., from Broad St. to High St., and High St., from Fourth St. to Sixth St. Approximate quantities are 4,560 cu. yds. of grading, 8,500 lin. ft. concrete curb and gutter, 700 lin. ft. backing curb, 13,500 sq. yds. paving, 1,000 sq. ft. concrete sidewalk, 600 lin. ft. 18-in. pipe sewer, 200 lin. ft. 15-in. pipe sewer, 500 lin. ft. 12-in. pipe sewer, 100 lin. ft. 10-in. pipe sewer, 23 sewer inlets, seven special catch basins and three manholes.

VERSAILLES, PA.—Bids will be received by T. J. Pyle, Boro. Clk., until 8 p. m., June 25, for grading, curbing and paving Walnut St. with vitrified brick.

BALTIMORE, MD.—The State Road Commission on June 14 awarded contracts for constructing roads as follows: Five miles in Allegany County, to HOTTMAN BROS., of Washington, Pa., at $38,659; 5 1/5 miles in Garrett County to J. E. FRANCIS at about $58,469, and 5¾ miles in Prince George County to FISHER & CAROZZA, of Baltimore, at $45,649.

Bids will be received until June 30 by the States Road Commission, J. C. Bowerman, Secy., Union Trust Bldg., for constructing about ten sections of state highway, aggregating about 36 miles.

*WASHINGTON, D. C.—Bids were received as follows on June 19 at the office of the Commissioners of the District of Columbia for grading and improving suburban roads in the district: a) James W. Bean, (b) George B. Miller, (c) Thomas R Riely & Co., (d) E. G. Gummel, all of Washington. Grading, per cu. yd., (a) 50 cts., (b) 57 cts., (c) 49 cts., (d) 39 cts.; setting 6 × 20-in. granite or blue stone curb, (a) 36 cts., (b) 29 cts., (c) 45 cts., (d) 27 cts.; setting 8 × 8-in. granite curb, (a) 44 cts., (b) 33 cts., (c) 50 cts., (d) 37 cts.; paving or repaving cobble or granite block gutters, (a) 33 cts, (b) 43 cts., (c) 55 cts., (d) 37 cts.; paving vitrified block gutters on gravel base, (a) 55 cts., (b) 79 cts., (c) 45 cts., (d) 59 cts.

FARMVILLE, VA.—Bids will be received until June 26 by P. St. J. Wilson, State Highway Comr., Richmond, for constructing about 3¼ miles of macadam road in Prince Edward County.

WHEELING, W. VA.—J. A. SWINGLE & CO., of Zanesville, Ohio, have received the contract for improving Caldwell's Run, Wheeling, at $23,849. The work includes 4,797 cu. yds. retaining wall, 1,326 cu. yds. excavation and 5,330 sq. yds. of concrete paving.

JACKSONVILLE, FLA.—[illegible] are asked until 2.30 p. m., July 6, by [illegible] Prioleau, City Engr., for grading and paving with vitrified paving blocks portions of 14 streets. The work includes 39,000 sq. yds. of stone curb and 78,000 sq. yds. of [illegible] ment.

SCOTTSVILLE, KY.—We are officially advised that contract was awarded on June 14 by the city for grading and [illegible] the streets and constructing [illegible] FRANKLIN CONCRETE CO., at $7,719. John Wilkes, C. E. [illegible] Nashville, Tenn., is Supervising [illegible] ineer.

LOUISVILLE, KY.—The MON CONSTRUCTION CO., of Indianapolis, Ind., was awarded contract on June 16 [illegible] of Public Works for paving the Board between Green and Walnut Sts., [illegible] St., between Green and Walnut Sts., [illegible] asphalt, at $6,367. The other bids for [illegible] M. H. McGovern Co., $7,253; American Standard Asphalt Co., $7,176; Berber Asphalt Paving Co., $6,700.

Bids are asked by the Board of Public Works until June 25 to pave [illegible] Ave., between Pine St. and the [illegible] house, with asphalt. Estimated cost, $9,300.

*DEFIANCE, OHIO.—Bids will be received by the Board of Public Service until noon, July 6, for paving North Clinton, Ralston Ave., Second and Jefferson Sts. with brick or asphalt block, approximately 25,000 sq. yds. Michael J. Walz is Clk. Bd.

PAULDING, OHIO.—Bids will be received at the County Auditor's office, Paulding, until 2. p. m., July 2, for grading, draining, culverting and macadamizing according to the plans, profile and specifications on file at the Auditor's office, the following pikes: Mellinger Pike, Harpster Pike. The Mellinger Pike will be sold in one section 13,485 ft. long, including stone approaches, estimated at $8,811. The Harpster Pike will be sold in one section 10,810 ft. long, including stone approaches, estimated at $5,910. Both of the above pikes are located in Washington Township.

*ORRVILLE, OHIO.—Bids are asked by the Wayne County Commissioners, Wooster, Ohio, until noon, July 17, for paving with brick and curbing one-half mile of road near here.

WESTERVILLE, OHIO.—Bids will be received until July 2 by Elsworth Horlocker, Village Clk., for paving Walnut St. with hard-burned brick and limestone macadam.

XENIA, OHIO.—Bids are asked until 11.30 a. m., July 6, by William Dodds, County Audr., for labor and material for constructing macadam road in Beaver Creek Township, requiring 4,878 cu. yds. of crushed stone.

SAINT MARYS, OHIO.—Bids will be received by the Board of Public Service until June 28 for about 20,000 sq. yds. of brick paving. F. C. Keuthan is City Engr.

PAOLI, IND.—ELWOOD JOHNSON, Orleans, Ind., has been awarded contract at $4,530, for constructing a gravel road in Orange County.

VERNON, IND.—MILLER BROS., North Vernon, Ind., have been awarded contract at $4,100, and J. M. CHILDERS, Grammer, Ind., at $5,947, for the construction of pike roads in Jennings County.

MISHAWAKA, IND.—Bids are asked until 6 p. m., July 6, by William S. Moore, City Engr., for constructing about 60,000 sq. yds of pavement. Bids will be received on asphalt, brick, bitulithic, Blome's granitoid, mineral rubber, asphaltic concrete, creosoted wooden block and concrete. The kind of pavement to be used will be selected after the bids have been received.

CROWN POINT, IND.—Bids are asked by the Commissioners of Lake County until noon, July 5, for the construction of the following gravel roads: The Batterman road in Winfield Township; Farley road in Center Township; Hitzeman road in Hanover Township; Blakeman road in Winfield Township; Peterson road in Ross Township; Hoffman road in Center Township; Craft road in Hobart Township. Charles A. Johnson is County Audr.

ROCKVILLE, IND.—Bids will be received by the Commissioners of Parke County until 1.30 p. m., July 6, for the construction of the following gravel roads: Campbell road in Washington Township; Harvey road in Liberty Township; Boyd road in Greene Township. H. A. Henderson is County Audr.

HUNTINGTON, IND.—Bids are asked by the Commissioners of Huntington County until 10 a. m., July 15, for the construction of the following macedamized roads: The Smithers road in Wayne Township and the Weeks road between Wayne and Polk Townships. John W. Weaver is County Audr.

JEFFERSONVILLE, IND.—Bids are asked by the Commissioners of Clark County until 11 a. m., July 12, for the construction of a crushed stone road 3.20 miles in length in Clark County. Peter Nachard is County Audr.

WILLIAMSPORT, IND.—Bids are asked by Robert L. Winks, Audr. Warren County, until 1 p. m., July 5, for the construction of a crushed stone road in Adams Township.

MADISON, IND.—Bids are asked by Gaylord F. Crosier, Audr. Jefferson County, until 1 p. m., July 6, for the construction of 16 miles of gravel road in Graham Township and 2.11 miles of gravel road same township.

BLOOMFIELD, IND.—Bids are asked by Peter M. Cook, Audr. Greene County, until 2 p. m., July 6, for the construction of the Welborn gravel road in Center Township and also the Wollam gravel road in Jackson Township.

KOKOMO, IND.—Bids are asked by the Commissioners of Howard County until 10 a. m., July 9, for the construction of 15,840 ft. of gravel road on line between Howard and Clinton Counties. A. B. Easterling is County Audr.

PETERSBURG, IND.—Bids will be received by the Commissioners of Pike County until 2 p. m., July 6, for the construction of various gravel roads.

MOROCCO, IND.—Bids will be received until June 2 by A. D. Peck, Supt. Construction, Morocco, for the construction of 11½ miles of macadam road in McClellan and Colfax Townships. Plans and specifications on file in the Auditor's office, Kentland, Ind.

CASEY, ILL.—Bids are asked until 2 p. m., June 29, by J. E. Walls, Mayor, for paving three streets with brick. Estimated cost, about $35,000.

PANA, ILL.—The BRETZ CONTRACTING CO., Springfield, Ill., has been awarded contract at about $20,000 for paving Elm St.

FOND DU LAC, WIS.—The Board of Public Works has awarded contract for paving North Main St., from Merrill to Scott Sts., and Brooke St., from Merrill to Scott Sts., to GEORGE H. STANCHFIELD, of Fond du Lac at $1.32 per sq. yd.

MAQUOKETA, IOWA.—Bids will be received by M. T. Fleming, City Clk., until June 30 for 17,275 sq. yds. of street paving, brick on concrete, about 5,000 cu. yds. excavation and 6,200 lin. ft. curb. James McKillip is City Engr.

FORT RILEY, KAN.—Bids will be received by Capt. W. M. Whitman, Constructing Q. M., U. S. A., until 10 a. m., July 15, for construction of approximately 16,000 sq. ft. of concrete walks.

GREAT FALLS, MONT.—Bids will be received until June 28 by W. P. Wren, City Clk., for grading and boulevarding Sixth Ave., South. C. W. Swearingen is City Engr.

ST. CHARLES, MO.—Bids will be received by Carr Edwards, City Engr., until June 28 for 14,370 sq. yds. of brick paving, 6,264 lin. ft. of granitoid curb and 7,000 cu. yds. of grading.

ST. LOUIS, MO.—Bids will be received until June 25 by the Board of Public Improvement, W. B. Dryden, Secy., for paving with vitrified brick block numerous alleys.

EVERETT, WASH.—The Board of Public Works has awarded contract for grading and laying cement sidewalks on the cross streets north of Hewitt Ave. to J. B. SNYDER at $59,647.

WILMINGTON, CAL.—Contract for constructing five miles of the harbor boulevard between Gardena and Wilmington was awarded on June 8 by the County Supervisors to W. N. CRANDALL, at $17,430, 100 days. George S. Pennebaker submitted a bid of $17,400, with a limit of 120 days.

MERCED, CAL.—We are officially advised that the County of Merced has recently appointed under state laws of California a Highway Commission as follows to plan extensive road improvements: A. Kellsey, Chn.; H. A. Kuns, Secy.; Paul Neuman, Treas.; Rowland Egenhoff, Engr.

COBOURG, ONT.—The FOREST CITY PAVING CO., London, Ont., have been awarded the contract for cement walks at 7.95 cts. per sq. ft.

MANUFACTURING PLANTS.

LOWELL, MASS.—We are officially advised that the Bigelow Carpet Co., of Lowell, Mass., are to build a dye house 687 ft. long and 46 ft. wide. Plans and specifications, by Charles T. Main, 45 Milk St., Boston, Mill Engr. and Arch.-in-Charge, call for a brick building comprising a central structure with two wings. To make way for those the old dye house is to be torn down and the old underground boiler house and coal pocket are to form the basement of the central building. The latter is to be of five stories high and will occupy a portion 125 ft. in length. It will be of mill construction with wooden saw-tooth roof, and will be used as a laboratory and for storage purposes. The wings are of about equal length, approximately 280 ft. and two stories in height, with reinforced-concrete floors and roof. The construction of one of the wings will not be undertaken for the present.

HOLYOKE, MASS.—The American Writing Paper Co. has completed plans and has placed the contracts for a central steam plant, which will be located on the lot belonging to and adjoining the Nonotuck Paper Co. division in Holyoke. When completed this plant will supply steam for the Gill, Onotuck and Mt. Tom divisions, replacing four boiler plants now in operation in these divisions. The construction work will be fireproof throughout. DANIEL O'CONNELL'S SONS, of Holyoke, have secured the general construction contract and the structural steel is to be furnished by the EASTERN BRIDGE & STRUCTURAL CO., of Worcester. The BABCOCK & WILCOX CO., Singer Bldg., New York, will furnish six water tube boilers, which will be equipped with the automatic furnaces manufactured by the MURPHY IRON WORKS, of Detroit. The smoke flue work will be done by the HOLYOKE STEAM BOILER WORKS. The ALPHONS CUSTODIS CHIMNEY CONSTRUCTION CO. will build the chimney. Coal will be taken from the cars and delivered either to yard storage or to the magazines over the boilers, and the same equipment will reclaim the coal from yard storage and pass it to the magazines. This equipment is to be installed by the ROBINS CONVEYING-BELT CO. The ashes will be handled by the DARLEY ENGINEERING CO.'S suction system and will be collected and elevated to a storage tank, which will be fed by gravity to carts or cars. The equipment to be installed will have a capacity of 3,500 boiler HP., and will be arranged for extension to 5,000 boiler HP. Foundation work has been started and the company expects to have steam from the new plant late in the fall.

ADAMS, MASS.—W. C. Plunkett & Sons, of Adams, Mass., cotton manufacturers, are to build an addition to the building which was erected by the company about a year ago. The new structure will be of brick, 40 ft. square, and will connect with the picker room of the company's plant on the second story. New machinery will be installed when it is completed, and the output of the plant increased from 15 to 20%.

SALEM, MASS.—Contracts for building the new tannery of the Carr Leather Co., Salem, Mass., have been let to PITMAN & BROWN, 249 Derby St., Salem. The work will be started at once and will be completed as quickly as possible. The Carr Co. hopes to get into its new factory in the fall. It will be larger than the factory which was burned some time ago.

BRISTOL, CONN.—The N. L. Birge Sons Co. will soon award a contract for the construction of two brick additions to its plant, one to be 24 × 64 ft. and the other 35 × 60 ft. They will be of brick and four stories high.

MIDDLETOWN, CONN.—The Rogers & Hubbard Mfg. Co. has awarded the contract for a factory in Portland to C. O. STONE & SON, of this city. The excavating will be done by F. ARRIGONI & BRO., Durham, Conn.

NEW YORK, N. Y.—Bids were received as follows by Robert W. Hebberd, Comr. Dept. of Public Charities, on June 15, for providing all labor and materials necessary or required for the excavation, masonry, steel and iron work, roofing and metal work, carpentry, electric work, elevator work, heating work, laundry plant, plumbing work and all other work, as set forth in the drawings and specifications for the alteration, repair, construction and entire completion of a heating plant and of the laundry for the Metropolitan Hospital District, Blackwell's Island, Boro. of Manhattan, the City of New York: Bottsford Dickenson Co., 1170 Broadway, New York, $100,300; Thomas Leahy Bldg. Co., $113,373; Daniel Ryan, $139,000; Luke A. Burke & Son, $120,000.

POUGHKEEPSIE, N. Y.—The American Cement Co. has closed negotiations, it is stated, for erection of a $1,000,000 plant to be built in Poughkeepsie, for the manufacture of Portland cement.

CORNING, N. Y.—The New York Central & Hudson River R. R. Co., George W. Kittredge, Ch. Engr., New York, has asked for bids for erection of a machine shop, 50 × 100 ft.; storage building, 50 × 100 ft.; boiler house, 54 × 60 ft.; engine house, 35 × 76 ft.; blower house, 38 × 56 ft.; sandhouse, 18 × 55 ft., and a 30-stall roundhouse, with turntable pit; also an office building. All are to be of brick, steel and concrete construction.

BUFFALO, N. Y.—The Delaware, Lackawanna & Western R. R. Co. will add to its East Buffalo car and locomotive repair shops a building for car repairs, 84 × 481 ft. It will be of steel frame, brick and concrete construction. G. J. Gay, Ch. Engr., Hoboken, N. J., has prepared plans.

SHARON, PA.—A new rod mill, furnaces and a storage building are provided for among the improvements contemplated by the American Steel & Wire Co. at the South Sharon plant. The work will cost about $100,000. It is said that an appropriation of over $60,000 has been made by the company for rebuilding the heating furnaces at the rod mill. With this improvement it will be possible for the American Steel & Wire Co. to use cold steel billets in the heating furnaces. At present hot billets are required, and these are purchased.

CUMBERLAND, MD.—The Cumberland Smokeless Powder Co. will commence the erection of a 5-acre plant at Sand Springs at once. The plant will be four miles west of Cumberland and will employ 300 men.

BALTIMORE, MD.—Charles J. Bonaparte, 216 St. Paul St., made application at the Building Inspector's office recently to build a 5-story brick warehouse and factory building at 424 West German St., near Paca St. The contract for the building has been awarded to JOHN COWAN, 106 West Madison St., and the work of construction will commence in a few days. The foundation will be brick laid in cement and concrete. The interior will be partly mill construction, and the roof will be covered with slag. An electric elevator will be installed. The first floor will be fitted with offices. The building will be heated by steam.

NEWBERRY, S. C.—Z. F. Wright, Pres. of the Newberry, S. C., Cotton Mills, has engaged Lockwood, Greene & Co., 93 Federal St., Boston, Mass., as Engrs.-Archs.-in-Charge of building the proposed additional mill. This addition was announced last April when the company appropriated $150,000 from the surplus and increased the capital by $100,000. The building will be 180 × 75 ft., and in it will be placed 10,000 spindles, 300 looms, etc., for manufacturing heavy sheetings. Electricity generated by steam will be the motive power. Building and machinery contracts, etc., will be awarded soon. The company has 30,000 spindles and 300 looms on sheeting, shirting and drill production.

FAIRMOUNT, S. C.—The Fairmount Mfg. Co., which took over the former Tyger Cotton Mills, has completed arrangements for about $150,000 worth of additions and improvements at Fairmount, S. C. It has awarded contract to C. R. WILLARD & SON, of Spartanburg, S. C., for the construction of a 35 × 200-ft. dam to provide additional power, and has arranged for the erection of a 105 × 135-ft. addition to the mill. There are 8,100 spindles and 256 looms in position, and to the spindles will be added 4,000 spindles, while the looms will be replaced with 300 looms of new design. Fine cotton cloth will be manufactured.

BON AIR, ALA.—The Coosa River Spinning Co. contemplates doubling its plant, but has made no definite arrangements. It now operates 10,000 spindles on hosiery yarns.

TOLEDO, OHIO.—The HATTERSLEY CONSTRUCTION CO., Gardner Bldg., has been awarded the contract by Bacon & Huber, Archs., Spitzer Bldg., to build the proposed addition to the Pope Motor Car Co.'s plant. Cost, $40,000. The building will be 40 × 183 ft. and will be three stories high.

FORT WAYNE, IND.—Bids are asked until July 1, by Ralph M. Snyder, Arch., Fort Wayne, for erecting a 3-story fireproof, brick and concrete woolen mill, 45 × 50 ft., to cost $25,000. The mill will be owned by the Old Fort Knitting Mills Co.

The Fort Wayne Packing Co. will soon ask for bids for a quantity of machinery to be installed in its new packing house.

MILTON, IND.—Thimothy Connel and others are preparing to ask for bids for the construction of a large grain elevator at Beeson's Station, five miles south of Milton.

INDIANAPOLIS, IND.—The National Conning Co. has decided to erect a $100,000 plant to manufacture machinery. Bids will be invited as soon as plans are completed. M. P. Woody, W. A. Scott, of Indianapolis, and M. C. Miller, of New York, are interested.

KENDALLVILLE, IND.—The J. B. Gorrell Mfg. Co., recently organized, will build and equip a factory plant in this city.

RACINE, WIS.—The Racine Steel Casting Co. has purchased a site containing 13¾ acres from Belle City Basket Co. and proposes to erect a foundry, machine shop and office buildings. Architects have not been chosen.

MASON CITY, IOWA.—The Farmers' Cooperative Brick & Tile Co., of Mason City, Iowa, has ordered a 14 × 30-ft. heavy duty Twin City Corliss engine from the MINNEAPOLIS STEEL & MACHINERY CO., of Minneapolis, together with transmission machinery and piping for the plant. This is the second Twin City Corliss engine that they have installed within a year.

ST. PAUL, MINN.—Guiterman Bros., Fifth and Sibley Sts., manufacturers of men's furnishings, have awarded the contract for the construction of a shirt factory at Gaultier and Blair Sts., to H. M. SEBY, Cedar and Ninth Sts., City. M. Fitzpatrick, 17 West Ninth St., is Arch. It will be two stories high, 55 × 125 ft., of pressed brick and cut stone, mill construction. Cost, $22,000.

MODESTO, CAL.—A pea canning factory is to be established at the Hickman Ranch, of 13,000 acres. M. O. Pallin, of Highland, N. Y., is interested.

FORT WILLIAM, ONT.—BARNET & McQUEEN have secured the contract for erecting a 16-tank addition to the Ogilvie Milling Co.'s elevator here. W. A. Black, Winnipeg, Man., is Western Mgr.

WINNIPEG, MAN.—The Great West Saddlery Co. was burned lately. Loss, $400,000. The company will rebuild at once. E. F. Hutchings is Pres.

VANCOUVER, B. C.—The Union Brewing Co., of Nanaimo, B. C., are having plans prepared for a brewery to be erected here at a cost of $150,000.

MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVICE.—Items regarding irrigation canal projects, etc., will be found under Water Supply—Irrigation.

AUTOMOBILES.—Hartford, Conn.—The Board of Contract and Supply, Jos. Buths, Secy., will receive proposals until 11 a. m., June 28, for two automobiles to cost $3,000.

*PARADE GROUND FILL.—Fort Monroe, Va.—Bids are asked until 10 a. m., July 22, by Capt. Ernest R. Tilton, Constr. Q. M., for fill at parade ground at Fort Monroe, Va.

BATTLESHIPS.—Washington, D. C.—Bids are asked until noon, Aug. 18, by Beekman Winthrop, Acting Secy., Navy Dept., Washington, D. C., for two battleships, Contracts 32 and 33.

LIGHTER.—Washington, D. C.—Bids are asked until noon, June 29, by Beekman Winthrop, Act. Secy., Navy Dept., for constructing by contract one ammunition lighter (No. 13.)

DITCH.—Hampton, Iowa.—Bids are asked by F. G. Luke, County Audr., until June 25 for construction of an open ditch in Drainage District. Excavation, about 373,000 cu. yds.

LEVEE.—Wapello, Iowa.—Bids are asked by the Board of Supervisors, Louisa County, until 2 p. m., June 28, for constructing a levee. H. W. Baker, County Audr. Estimated quantity, 178,928 cu. yds.

WHARF.—Fort William, Ont.—The contract for the wharf on Mission River for the National Trans-Continental R. R. Co. has been awarded to SMITH & HENEY, Ottawa, Ont., at $300,000.

FIRE ENGINES.—New York, N. Y.—Bids are asked by Nicholas J. Hayes, Fire Comr., until 10.30 a. m., June 29, for furnishing and delivering two second-size steam fire engines.

AUTOMOBILE.—New York, N. Y.—Bids are asked until 11 a. m., June 30, by Bird S. Coler, Pres. Boro. of Brooklyn, for furnishing and delivering one automobile and equipment to the Bureau of Sewers.

DREDGING.—Cleveland, Ohio.—Bids will be received until 11 a. m., June 28, by Lieut. Col. John Millis, Corps Engrs., U. S. A., 813 Prospect Ave., S. E., Cleveland, for dredging Cleveland Harbor.

LEVEE.—New Orleans, La.—Bids are asked until 11 a. m., June 29, by Capt. H. Burgess, Corps Engrs., U. S. A., for constructing about 220,000 cu. yds. of new levee in the Lower Tensas District.

ROCK.—New Orleans, La.—Bids are asked by Capt. H. Burgess, Corps Engrs., U. S. A., until 11 a. m., June 28, for furnishing about 7,500 tons of rock at New Orleans Harbor; also about 7,500 tons of rock at Natches Harbor.

BREAKWATER.—Ashtabula, Ohio. — Bids will be received until 11 a. m., June 28, by Lieut. Col. John Millis, Corps Engrs., U. S. A., 813 Prospect Ave., S. E., Cleveland, for extending and repairing outer breakwater at Ashtabula Harbor.

TRACK.—Calgary, Alta.—DUNCAN McARTHUR, Winnipeg, Man., who has a large irrigation contract near here, will build 40 miles of track in order to get his two steam shovels to the land to be irrigated. His contract involves the removal of 2,000,000 cu. yds. of earth.

IRON RAILINGS.—New York, N. Y.—Bids are asked by the Park Board, Henry Smith, Pres., until 3 p. m., July 1, for furnishing and erecting iron railings around the grass plots in Broadway, between 72d and 83d Sts., Boro. of Manhattan.

HOSE.—Washington, D. C.—Bids are asked until 2 p. m., July 1, by the District Commissioners, for furnishing the Fire Department, District of Columbia, with 15,000 ft. more or less of 2½-in. cotton rubber-lined hose, during the fiscal year ending June 30, 1910.

*COAL.—New York, N. Y.—Bids are asked by Col. S. W. Roessler, Corps Engrs., U. S. A., Army Bldg., New York, until noon, July 6, for furnishing and trimming into U. S. dredges during the twelve months beginning July 1, 1909, about 48,000 tons of bituminous coal.

TUBE SERVICE.—New York, N. Y.—Bids will be received until 3 p. m., July 1, by Jas. Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., for installing a double pneumatic tube service between the U. S. Appraiser's warehouse and the U. S. Custom House, New York.

STEEL PLATES.—Ottawa, Ont.—Bids will be received until noon, June 29, for furnishing 625 tons of steel plates and shapes required for the construction of elevator dredge No. 26 to be built at Sorel, Que. O. J. Desbarats, Acting Deputy Minister of Marine and Fisheries, Ottawa, Ont.

DOCK, DREDGING.—Two Rivers, Wis.—The Board of Public Works will receive bids until July 2 for constructing a new dock on north side of West Twin River, approximately 546 ft. in length; and dredging approximately 9,700 cu. yds. of earth to be hauled into Lake Michigan. William Luebke, Chn.

DITCH.—Bloomington, Ill.—Bids will be received by Augustus M. Hicks, Chn. Bd. of Comrs. Lawndale and Cropsey Drainage Dist., at Bloomington, until June 24, for constructing a dredge ditch 14.7 miles in length containing about 538,000 cu. yds. of excavation. A. H. Bell is County Surveyor, at Colfax.

DITCHES.—Orlando, Fla.—Bids will be received by B. M. Robinson, Clk. Bd. of Comrs., until July 15 (an extension of time from June 7) for constructing various ditches. Wilbur A. Glun, Engr., First National Bank Bldg., Sanford, Fla. Specifications are on file at office of Engineering News, New York.

LEVEE.—Vicksburg, Miss.—Bids will be received until noon, July 1, by Capt. Clarke S. Smith, Corps Engrs., U. S. A., Mississippi River Comn., 3d Dist., Vicksburg, for 940,000 cu. yds. levee work in this district. Bids will also be received at same time for furnishing brush and poles for revetment work in above district.

FIRE ALARM TELEGRAPH.—New York, N. Y.—Bids are asked by Nicholas J. Hayes, Fire Comr., until 10.30 a. m., July 1, for furnishing and delivering supplies for the fire alarm telegraph for use in the Boros. of Brooklyn and Queens, and for furnishing and delivering supplies for the fire alarm telegraph, volunteer system, Boro. of Queens.

DREDGING.—Norfolk, Va.—Bids were received as follows on June 19 by the Bureau of Yards and Docks, Navy Department, for the dredging at the Norfolk Navy Yard: Coastwise Dredging Co., Norfolk, Va., (item 1) $19,230, (2) $19,000, (3) $7,500, (4) 27 cts., (5) $3,294, (6) 27 cts., (7) 27 cts.; P. Sandford Ross, Inc., Jersey City, N. J., (3) $8,500, (8) $89,845.

*DRAINAGE.—Hasbrouck Heights, N. J.—Bids are asked by the Riser Ditch Drainage Commissioners at their office in the Borough of Hasbrouck Heights, Bergen County, until 4 p. m., July 6, for deepening and straightening the main Riser Ditch lying in the Boroughs of Wood Ridge and Hasbrouck Heights, and the Township of Lodi, in the County of Bergen. Robert L. Craig is Secy.

CULVERT.—Schenectady, N. Y.—The New York Central & Hudson River R. R. Co. and the Schenectady Ry. Co. have come to an agreement in connection with the construction of the arch culvert in Schenectady to carry the Villa Road under the railroad tracks. A portion of the cost of the work will also be borne by the city. It is expected that work on the structure will be begun shortly.

GRANITE.—New York, N. Y.—Bids were received as follows on June 18 by the Department of Docks and Ferries, for furnishing and delivering granite stone for bulkhead or river wall: (a) Class 1; (b) Class 2: Booth Bros. & Hurricane Island Granite Co., (a) $1.19, (b) $1.29; Ryan Parker Construction Co., 21 Park Row, (a) $1, (b) $1; Michael McGarth, Broadway, Astoria, L. I., (a) 95 cts., (b) $1.10.

PLAYGROUND.—Brooklyn, N. Y.—Bids were received as follows by the Department of Parks on June 17 for the construction of a playground at Seigel, McKibbin and White Sts., Boro. of Brooklyn: O'Grady Bros., 69 North Eighth St., Brooklyn, $15,296; Cooper & Evans, $16,372; J. H. Harnet, $20,067; Atlanta Contracting Co., $22,165; Kelly & Kelley, Inc., $16,730; Robertson & Gerhart, $21,050; F. J. Gallagher, $20,086.

LOCKS MACHINERY.—St. Andrews, Man.—Bids will be received until 4.30 p. m., June 28, by Nap. Tessier, Secy. Dept. Public Works, Ottawa, Ont., for the construction of balanced self-operating hydraulic sluice valves and connected machinery for the locks here. Plans and specifications may be seen at the Department, and also at the offices of the resident engineers at Lockport Man., Winnipeg, Man., Toronto, Ont., and Montreal, Que.

ORDNANCE.—Washington.—Bids were received as follows on June 16, by the Chief of Ordnance, Navy Department, Washington,

for rough-bored and turned nickel steel forgings as follows: (a) 20 sets for 12-in. gun, Mark VII; (b) 32 sets for 5-in. Mark VII; (c) 15 sets 8-in. Mark VI: Bethlehem Steel Co., South Bethlehem, Pa., and Midvale Steel Co., Philadelphia, each bid 30 cts. per lb. on entire order; the Crucible Steel Co. of America, Pittsburg, Pa., bid 29½ cts. on ten sets for the 5-in. guns.

AIR COMPRESSOR PLANT.—Brownsville, Pa.—Bids for furnishing and installing a water-power air compressor plant at new Lock 5, Monongahela River, Brownsville, were opened as follows on June 9 by Maj. H. C. Newcomer, Corps Engrs., U. S. A., Pittsburg: Hall Steam Pump Co., Grant Ave., near South St., Pittsburg, Pa., (1) $5,350, (2) $5,625, (3) $4,850, (4) $5,120, (5) $5,625, (6) $5,120; The Trump Mfg. Co., Springfield, Ohio, $6,570; Pittsburgh Gage & Supply Co., 30th and Liberty Sts., Pittsburg, $6,504.

DREDGING.—Brooklyn, N. Y.—Bids were received as follows by the Department of Docks and Ferries on June 16 for Contract No. 1025. For furnishing all the labor and materials required for dredging at the site of the proposed improvement near the mouth of Whale Creek, Newtown Creek, Boro. of Brooklyn: W. H. Beard Dredging Co., 21 State St., 18½ cts. per cu. yd.; Newark Meedow Improvement Co., 29¾ cts.; Grant Rohrer, 38 cts.; P Sanford Ross Co., 25 8-10 cts.; R. G. Packard Co., 24 2-9 cts.; Morris Cummings Dredging Co., 20.84 cts.

DIKES.—Vallejo, Cal.—Bids were received as follows on June 19 by the Bureau of Yards and Docks, Navy Department, for the extension of dikes at the Mare Island Navy Yard: Hyde, Harges & Co., San Francisco, Cal., item (1) $61,230, (2) $48, (3) 21 cts.; Mercer Fraser Co., San Francisco, (1) $60,-375, (2) $50, (3) 50 cts.; Cotton Bros. & Co., Oakland, Cal., (1) $59,494, (2) $50, (3) 25 cts.; American Construction Co., San Francisco, (1) $60,130, (2) $55, (3) 50 cts.; Healy, Tibbets Construction Co., San Francisco, (1) $52,840, (2) $39, (3) 40 cts.; Thomson Bridge Co., San Francisco, (1) $55,543, (2) [illegible] (3) 25 cts.; San Francisco Bridge Co., San Francisco, (1) $55,543, (2) $48, (3) 25 cts.; W. N. Concanon Co., San Francisco, (1) $65,975, (2) $45, (3) 50 cts.

LANDING PLATFORM.—New York, N. Y.—Bids were received as follows by the Department of Docks and Ferries on June 21 for Contract No. 1180: For furnishing all the labor and materials required for preparing for and building a landing platform, breakwaters, float stages and movable gangways, with appurtenances, at the foot of West 110th St., North River, and for furnishing and depositing riprap thereat: B. J. Rolf, 39 Cortlandt St., New York, $27,-083; Jenck-Asserson Co., $33,457; N. Y. Submarine Contracting Co., 150 Pearl St., New York, $31,010; Phoenix Construction Co., 41 Park Row, New York, $25,397; Bart Serenin, $31,300; Snare & Triest, 143 Liberty St., New York, $32,500; G. E. Spearin, $27,339; Northeastern Construction Co., $31,-428.

BARGE CANAL.—Albany, N. Y.—Bids were received by F. C. Stevens, Supt. of Public Works, on June 22, for three additional Barge Canal contracts, as follows: On Contract No. 30, which is for the construction of 14 miles of canal, river and land line, from Little Falls to Sterling Creek: Maryland Dredging & Contracting Co., Batimore, Md., $2,905,250; American Pipe & Construction Co., 112 North Broad St., Philadelphia, Pa., $2,870,291; Acme Engineering & Contracting Co., New York and Schenectady, N. Y., $2,591,666; engineer's estimate, $2,650,500. On Contract No. 36, which is for providing winches for moveable dams in the Mohawk and Genesee rivers, but one formal bid was received, that of Charles Longenecker & Co., 150 Nassau St., New York, $169,940; engineer's estimate, $44,600, and on Contract No. 42: John Marech, Chicago, Ill., $1,424,746; Shanley-Morrissey, Inc., 527 Fifth Ave., New York, $1,163,625; M. A. Talbot & Co., Baltimore, Md., $1,327,342; Acme Engineering & Contracting Co., New York and Schenectady, $1,431,805, and Scott Bros., Baldwinsville, N. Y., $1,240,123; engineer's estimate, $1,-318,814.

VESSELS.—Washington, D. C.—Bids were received on June 15, at the office of the Quartermaster General, U. S. A., for furnishing one, two, three or four steel steam vessels for service in the Quartermaster's Department of the Army. Bids were asked on four specifications. Bids were as follows: Wm. Cramp & Sons Ship & Engine Building Co., Philadelphia, one vessel, (a) $83,000, (b) $84,400, (c) $82,200; two, $160,000; three, $236,500; four, $312,500; (g) $550. Staten Island Shipbuilding Co., Staten Island, N. Y., one, (a) $86,000, (b) $90,000, (c) $87,000, (d) $85,500, (e) $86,700, (f) $83,000; two, $169,-700; three, $252,200; four, $335,000; (g) $750; New York Shipbuilding Co., Camden, N. J., four, $334,000; (g) $400; Pusey & Jones, Wilmington, Del., one, (a) $88,620, (b) $92,647, (c) $89,052, (d) $88,847, (e) $89,567, (f) $87,500, (g) $375; two, $175,092; Fore River Shipbuilding Co., Quincy, Mass., one, (a) $89,000, (b) 90,800, (c) $88,650, (d) $86,850, (e) $88,025, (f) $85,850, (g) $600; two, $165,000; three, $239,000; four, $314,-000; Gas Engine & Power and Charles L. Seabury Co., Consolidated, Morris Heights, N. Y., one, $105,000; Seabury boilers, $103,-500; John H. Dialogue & Sons, Camden, N. J., (a) $90,600, (b) $93,500, (c) $91,400, (d) $89,400, (e) $90,100, (f) $88,100, (g) $500; two, $175,200; three, $258,800; four, $341,-400.

STEAMER.—Washington, D. C.—Bids were received as follows on June 22, by the Quartermaster General, U. S. A., for the construction of a steamer for use in the Quartermaster Service: (a) bid on specifications; (b) with Babcock & Wilcox boilers; (c) Taylor boilers; (d) Almy boilers; (e) Mosher boilers; (f) Roberts boilers: Bath Iron Works, Bath, Me., (a) $139,900, (b) $138,000, (c) $136,100, (d) $136,400, (e) $137,000, (f) $135,500; Fore River Shipbuilding Co., Quincy, Mass., (a) $87,750, (b) $92,950, (c) $87,320, (d) $87,975, (e) $90,170, (f) $86,888; New York Shipbuilding Co., New York, (a) $120,000, (b) $124,000, (d) $122,000, (f) $120,000; John H. Dialogue & Sons, Camden, N. J., (a) $107,500, (b) $110,100, (d) $105,300, (e) $105,000, (e) $107,500, (f) $104,500; Wm. Cramp & Sons Ship & Engine Bldg. Co., Philadelphia, Pa., (a) $90,000, (b) $102,500, (c) $98,000, (d) $98,100, (e) $90,000, (f) $97,000; Staten Island Shipbuilding Co., New York, (a) $94,-950, (b) $100,000, (c) $94,950, (d) $94,954, (e) $97,800, (f) $93,950; Gas Engine & Power Co., and Charles L. Seabury Co., Consolidated, Morris Heights, N. Y., (a) $126,-500, Seabury boilers $123,000; Pusey & Jones, Wilmington, Del., (a) $88,846, (b) $94,220, (c) $89,179, (d) $89,795, (e) $91,-679, (f) $87,389; W. F. H. Fletcher Co., Hoboken, N. J., (a) $136,794, (b) $130,794; (c) $132,944, (d) $133,000, (e) $135,000, (f) $132,794.

EXAMINATIONS.

ENGINEER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on July 21-22, to secure eligibles from which to make certification to fill a vacancy in the position of Engineer in Wood Preservation, Forest Service, $1,000 a year, and vacancies requiring similar qualifications as they may occur. Two days will be required for this examination. Age limit, 22 to 40 years. Application Form 1312. Applications must be filed prior to closing hour on July 10.

DRAFTSMEN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on July 14-15 to secure eligibles from which to make certification to fill a vacancy in the position of Topographic Draftsman, $900 a year, Coast and Geodetic Survey, and vacancies requiring similar qualifications as they may occur in any branch of the service. The salary of the position of Topographic Draftsman ranges usually from $1,000 to $1,500 a year, and for Copyist Topographic Draftsman from $900 to $1,500 a year. Both men and women will be admitted to this examination. Age limit, 18 years. Application Form 1312.

AID.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on July 8-9 to secure eligibles from which to make certification to fill four vacancies in the position of Deck Officer, at $75 a month, each, in the Coast and Geodetic Survey, and vacancies as they may occur in the position of Aid and Deck Officer in that Survey. As the Commission has experienced considerable difficulty in securing a sufficent number of eligibles for this position to meet the needs of the service, qualified persons are urged to enter this examination. Age limit, 18 to 25 years. Application Form 1312.

ARCHITECTURAL DRAFTSMAN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on July 14-15, to secure eligibles from which to make certification to fill a vacancy in the position of Architectural Draftsman, $1,500 a year, Quartermaster's Department at Large, Philippines Division, and vacancies requiring similar qualifications as they may occur in any branch of the service. Appointments to this position in the Supervising Architect's Office, Treasury Department, are made at salaries of $1,200 a year and upward. Age limit, 18 years. Application Form 1312. Applications must be filed prior to closing hour on July 3.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56, of Advertisements and Construction News page 219.

GRAVEL ROADS.

Monmouth Co., N. J.

Sealed proposals to build a gravel road under the provisions of the New Jersey State Aid Road Laws, in the Townships of Shrewsbury and Wall, Monmouth County, New Jersey, extending from the end of Section one of the Farmingdale and Hamilton Road (better known as Corlies Avenue) to the Neptune Township line across the new right of way purchased for this purpose, being one and 90/100 miles long, will be received by the Board of Chosen Freeholders of the County of Monmouth at their office in the Court House at Freehold, New Jersey, on the fourteenth day of July, A. D. 1909, at eleven o'clock A. M., and then and there publicly opened.

Plans and specifications may be seen at the office of the Board of Chosen Freeholders in the Court House, Freehold, N. J., or E. E. Throckmorton, Engineer, Broadway, Long Branch, N. J., or the State Commissioner of Public Roads, State House, Trenton, N. J. Specifications may be obtained by addressing George W. Patterson, Jr., Clerk of the Board, Freehold, N. J. Information regarding the road may also be obtained of William B. Conover, Director of the Board, Red Bank, N. J., or H. D. Le Roy, Freeholder, Asbury Park, N. J.

Each bidder must accompany his bid with his check duly certified for $1,000.00 payable to the order of the Director of the Board of Chosen Freeholders as a guarantee if said contract is awarded to him, he will enter into an agreement with the said Board for the due and faithful performance of the work, which agreement must be executed, together with the bond of the successful bidder, within twenty days from the time of awarding the contract, in the penal sum of at least the total estimated cost of the work with two or more Freeholders or a good and sufficient surety or Trust Company as sureties, all to be first approved by the State Commissioner of Public Roads and the Director of the Board of Freeholders and conditioned for the faithful performance of the work in strict conformity with the plans and specifications.

Checks will be returned to the unsuccessful bidders upon award of the contract not exceeding ten (10) days from the date of receiving the bids.

The bids of all unsuccessful bidders will be retained by the clerk for reference.

The Board reserves the right to reject any or all bids in their discretion.

WM. B. CONOVER,
Director.
E. E. THROCKMORTON,
Engineer.

Attest:
GEO. W. PATTERSON, Jr.,
Clerk of the Board of Freeholders.
Dated June 16, 1909.

FILTER PLANT.

Burlington, N. J.

Sealed proposals will be received by the Board of Water Commissioners, at its office in the City of Burlington, New Jersey, until 3 p. m., Monday, July 26, 1909, for the erection of a Mechanical Filter Plant of concrete construction, of a capacity of three million gallons per day of twenty-four hours.

Each bidder will be required to submit with his proposal, plans and specifications of his proposed system, and of the material to be used in the construction and operation thereof.

The right is reserved to reject any or all bids.

The successful bidder will be required to furnish bond to the amount of one-half the amount of the contract price, for the faithful performance of the work.

All proposals to be endorsed "Proposals for Filter Plant," and delivered to the undersigned, from whom any information regarding the same may be obtained.

GEORGE A. ALLINSON,
Superintendent.

SALE OF MACHINERY.

Manchester-by-the-Sea, Mass.,
June 22, 1909.

The Board of Water Commissioners of the Town of Manchester invites bids for the purchase of any or all of the following machinery now in commission at the Pumping Station at Manchester.

This machinery has been in the hands of a first-class mechanic and is in fine running condition.

It is offered for sale for the reason that the town has just completed a new standpipe for high service which calls for more power than the present plant can furnish and it will be replaced by gas producers and engines which are now ready for installation.

This machinery will be in operation until July 10th and may be inspected at any time before that date.

Any part of it which may remain unsold will be disposed of by auction on the fifteenth of July.

The Board believes this to be an excellent opportunity to obtain machinery of this class at a low price and they will be glad to answer any inquiries or arrange for an inspection of the plant at any time.

Address all inquiries to the chairman of the Board.

One compound duplex condensing pump. Stillwell-Bierce. Capacity, 500,000 gallons in 24 hours. Complete.

One small feed pump, Blake size 0.

One Stillwell-Bierce condensing air pump, 5½ × 7 × 7.

One Blake external packed plunger feed pump, size 2½.

One Smith Vaille vertical air pump, 5 × 8 × 6.

One Blake jet condenser.

Two Blake 7 × 14 × 8 × 12 compound duplex condensing pumps; capacity of each, 750,000 in 24 hours. Oil pumps included and revolution counters excluded.

One Jacobs Heater.

Six lubricators (2 Siebert, 4 Wizard).

One steam gage, 10", 160 lbs.

Two boilers, shell measurements 13' x 4' 6" diameter. Hor. type. Whittier. Rated 45 HP.

Two Spencer regulators.

Three wooden tanks, two are 3' 6" × 4' 5" diameter and one is 2' 5" × 5.5' diameter.

One Smith copper sand chamber, 4' × 3' diameter.

Two tube blowers.

Miscellaneous lot of piping, valves and gages.

F. J. MERRILL, Chairman;
J. T. STANLEY,
JAMES HOARE,
Water Commissioners.

PAVING.

Orrville, Ohio.

The County Commissioners of Wayne County, Ohio, will open bids for paving with brick and curbing ½ mile of road near Orrville, Ohio.

Bids will be opened at Wooster, Ohio, July 17, 1909, at 12 o'clock. Plans, profiles and specifications on file at the Auditor's office.

FORT MONROE, VA., June 21, 1909.—Sealed proposals, in triplicate, will be received until 10 A. M., July 22, 1909, for fill for parade ground at Fort Monroe, Va. Information on application. Bids must be plainly marked as such on envelope or outside wrapper. The United States reserves the right to accept or reject any or all bids or any part thereof. Address ERNEST R. TILTON, Capt. & Q. M., U. S. A., Constg. Q. M.

Situations Open

WANTED—Engineer to purchase established civil and mining engineering business and equipment; good location, well established. For particulars, address Box 211, Fairmont, W. Va. 25-2t

WANTED—Structural detailers and checkers on building work. State salary and experience in detail and when able to report. Address "K. B. 25," Engineering News, New York. 25-2t

FOR SALE

FOR SALE

Three

Locomotive Type Boilers

125 to 150 H. P. each.

Two

Straight Line Compressors

Capacity, about 1500 cubic feet air each.

Address "A. A. 25," care of Engineering News, New York.

Notice to Bridge Engineers, Architects and Builders

The Board of Park Commissioners of the City of Minneapolis, Minn., being about to connect by waterways the lakes of its Park System, is desirous of securing designs, detail plans, specifications and estimates for several bridges which shall be of such design as will suit the surroundings. For the purpose of obtaining such designs and plans from expert bridge engineers and architects, the Board offers $1,500 in three prizes, as follows:

First prize $800 Second prize $500 Third prize $200

The lakes to be connected by canals or waterways are three in number, are in a choice residential section of the city. They are encircled by parks, the banks are beautifully wooded, and in their building it is desired to construct the highest possible type of Park Bridges, such as will be beautiful and in harmony with the surroundings. It is hoped that the opportunity afforded for ornamental work will, even more than the prizes offered, induce the best bridge architects and engineers of the country to enter into this competition.

Prospective competitors can secure full information by addressing the Board. Designs and plans will be received by the Board until September 1, 1909, at 5 p. m. The bridges are to be of concrete, stone or a combination of both.

Address,

BOARD OF PARK COMMISSIONERS
Minneapolis, Minn.

In this Issue: The Report on a Deep Waterway from Chicago to New Orleans.—Purifying Water with Chloride of Lime.—Electric Locomotives for the Detroit Tunnel.—Index to Volume 61.

ENGINEERING NEWS

Volume 61. No. 25

220 Broadway, NEW YORK, THURSDAY, JUNE 24, 1909.

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High Elastic Limit

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PORTLAND CEMENT

STANDARD BRAND OF MIDDLE WEST

Specially Adapted to All Reinforced Concrete and High-Class Work

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ST. MARYS ELK CO., PA.

FOR ALL CITY SEWERS

GLAZED CLAY SEWER PIPE

Better and cheaper than brick or other material. Demand constantly increasing. We have it in 27, 30 and 36-inch, and all smaller sizes. In business fifty years. Write the manufacturer.

EVENS & HOWARD FIRE BRICK COMPANY, St. Louis, Mo.

BLACKMER & POST PIPE CO.

ST. LOUIS

Vitrified Pipe Exclusively

LARGE SIZES A SPECIALTY

Vitrified Pipe—Double Strength Extra Heavy Culvert Pipe All Sizes

MANUFACTURED FROM SHALE

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Superior Vitrified Sewer Pipe — Double Strength Extra Thick Culvert Pipe

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Main Sales Office: 100 William Street, New York — Works: Williamsport, Pa.

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SMITH MIXER

SYMONS CRUSHERS

See our advertisement on page 57

CRANES OF ALL TYPES **AIR HOISTS**

WHITING CUPOLAS, LADLES, TUMBLERS, TRUCKS, TURNTABLES, etc.

Send for Catalogs **COMPLETE EQUIPMENTS** Correspondence Solicited

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Cunningham Coal Tar Paint

Address the

MARYLAND STEEL CO.

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Standard Feed End Blocks—Standard Brick for Housings, Dryers, Boiler Settings, Hoods, Stacks, etc.

Highest grade in their respective classes. Average record on hot ends 15 months per lining. High record over two years. Information and prices on request.

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PROPOSALS

See pages immediately following last reading

"Lehigh" Portland CEMENT

High Tensile Strength — Finely Ground

Light and Uniform in Color

Recommended for High-Class Engineering Work

Manufactured by

LEHIGH PORTLAND CEMENT CO.

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725 Rockefeller Building — CLEVELAND, OHIO

Will Furnish and Erect in United States and Foreign Countries

Wooden Stave Pipe

EXCELSIOR WOODEN PIPE CO. SAN FRANCISCO

Advertisement is on page 14.

THE **PULSOMETER** STEAM PUMP

See our advertisement on page 4

ASK US WHY

It will be an advantage to you to know why our PIPE DIP, BRICK FILLER, PAVING CEMENT, MASTIC and WATERPROOFING, have made an unbroken record of success for more than 10 years. May we tell you? Your request will bring full information. Please state which one of our products you are interested in.

AMERICAN ASPHALTUM AND RUBBER CO. Dept. 7. 600 to 610 Harvester Bldg., Chicago, Ill.

The Paint of standard quality for permanent protection of steel, iron and wood.

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(TRADE MARK)

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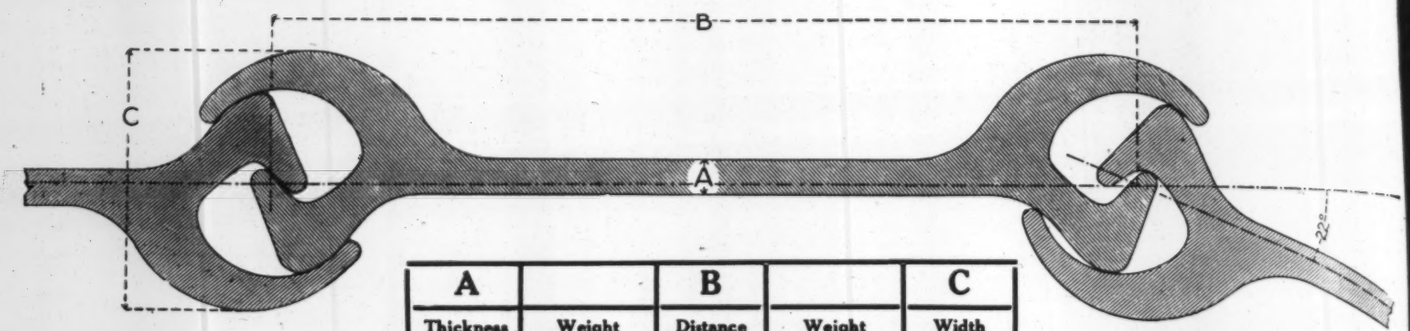
MAKE TIGHT STEAM JOINTS BY USING **CORRUGATED COPPER GASKETS** FOR FLANGED PIPES CYLINDERS, CHESTS, Etc.

Samples and Circulars free — UNITED STATES MINERAL WOOL CO., 140 CEDAR STREET, NEW YORK CITY

Alphabetical Index of Advertisers, Page 39

Lackawanna Steel Sheet Piling



A		B		C
Thickness of Web	Weight Per Sq. Ft. of Wall	Distance C to C of Joints	Weight Per Lin. Ft.	Width of Joint Over All
½"	40.00 lbs.	12¾"	42.500 lbs.	3½"
⅜"	35.00 lbs.	12¾"	37.187 lbs.	3½"
¼"	20.31 lbs.	7"	11.850 lbs.	1½"

An integral rolled section providing an interlocking, practically watertight joint of unequaled strength.

Lackwanna Steel Sheet Piling drives straight and easily, is easily withdrawn and can be repeatedly used.

Every Contractor will find it useful on many a job. For details address:

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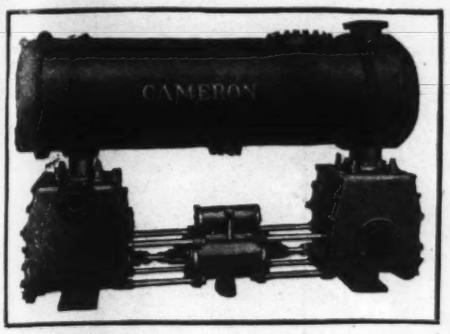
CHICAGO **DETROIT** **CLEVELAND** **BOSTON** **CINCINNATI**
ATLANTA **PITTSBURG** **PHILADELPHIA** **BUFFALO** **SAN FRANCISCO**

THE SLOGAN OF THE CAMERON:—"CHARACTER: THE GRANDEST THING"

Cameron Pumps

And Jet, Surface and Barometric Condensers



Cameron Surface Condenser mounted over Combined Air and Circulating Pump

This apparatus is used for condensing the exhaust steam from engines and creating a very high vacuum, thereby increasing the efficiency of the engines 20 per cent. to 30 per cent.

When you buy a Pump or Condensing Apparatus at a so-called bargain price, you do not always get a bargain; for good pumping machinery, like other good things, is valued for what it is really worth and purchased accordingly.

Cameron Pumps are not in competition nor to be compared with poorly designed, cheaply constructed, short lived pumps. The **Cameron** occupies a position solely its own, and is in a class by itself, and is recognized as being superior by more than 60,000 users the world over.

You may purchase a pump at lower initial cost, but it will not be cheaper in the truest sense, long life of satisfactory use with minimum cost of repairs, nor will it give the highly efficient, economical service of a **Cameron.**

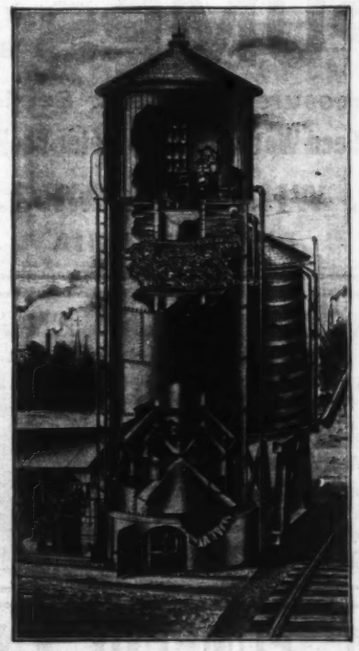
Everything entering into the construction of **Cameron** Pumps and Condensers stands for quality. Workmanship and material are the best procurable, which, combined with excellence of design, renders them durable beyond all others, and durability means long life and freedom from repairs.

Our Catalog Edition "M" gives you information regarding every pump we make, and we make them for every purpose. Also send for our Bulletin, **"Condensing Apparatus,"** just off the press.

A. S. Cameron Steam Pump Works

Foot of East Twenty-Third Street, New York

June 24, 1909.



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Russell Water Softener

The objectionable features of other Softeners on the market are overcome by the modern up to date "Russell."

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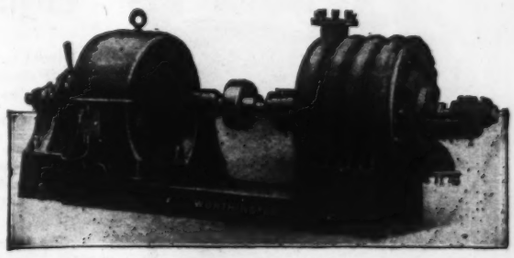
THE GEM CITY BOILER CO.

Dayton, Ohio.

WORTHINGTON



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are distinguished from other centrifugals by the possession of diffusion vanes, which permit a high lift per stage with good efficiency. These pumps are built in all capacities and for all heads and all services. The efficiency is guaranteed.

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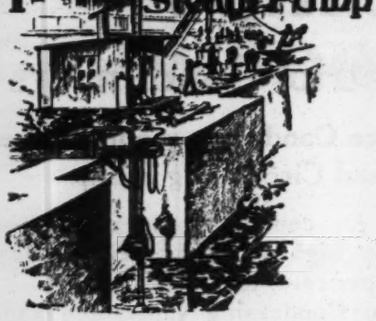

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for unwatering excavations, cofferdams, sewer trenches, quarry pits, bridge abutments, clay pits, etc.; in fact, any other place where the liquid to be handled contains much grit, mud, sediment or foreign matter.

THE PULSOMETER STEAM PUMP

requires no engine, belt, oil, packing or special foundation; merely a steam pipe from the boiler—that's all. Works as well suspended as stationary. May be raised and lowered and swung about without interrupting its work.

Illustrated Descriptive Catalogue Gratis

Pulsometer Steam Pump Co.

18 Battery Place, New York City

Chicago Office, 61-69 No. Jefferson St.

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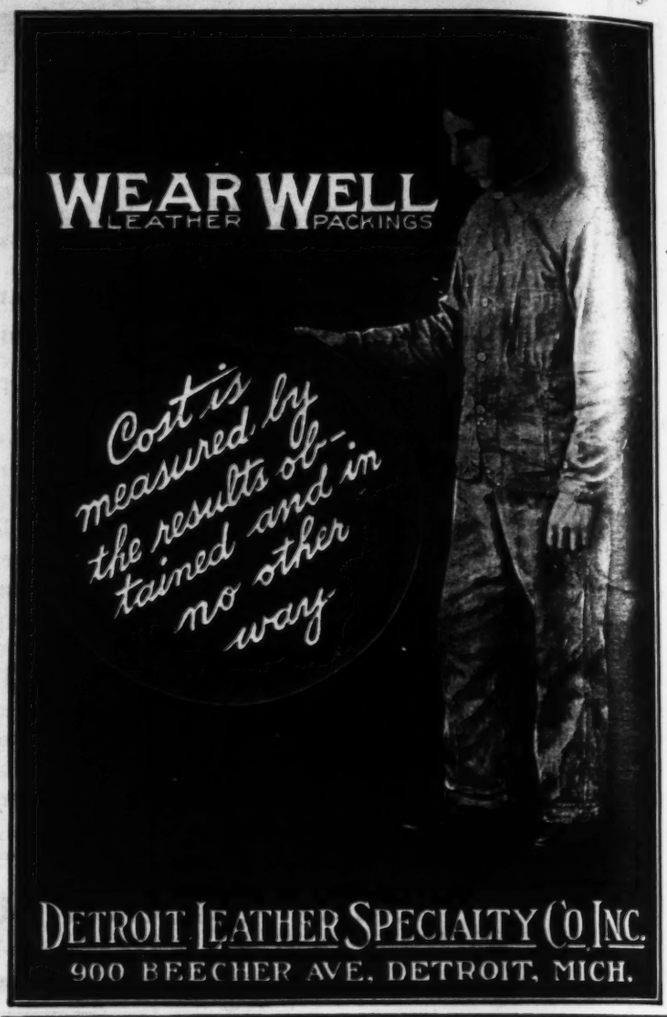

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Domestic Pumping Engines

Direct connected
Self contained
Ready to operate
on
Gasoline
Benzine
Grain Alcohol
City Gas

The Domestic Pumping Outfit is used for pumping out of shallow wells, springs or running streams, and for forcing water from a lower to a higher level.

Engine and Pump are both built on a special base, making a compact and powerful arrangement. By this construction we are enabled to use two flywheels on engine, which gives a steadier motion and equalizes the strains on the crank shaft bearings.

Regular pulley is placed on engine so that engine can be used for operating other machinery. When not desired to pump, it is only necessary to remove one pin to disconnect.

Cap. Mentioned at 150 ft. Head	Gallons per hour	R.P.M.	Water Connection	Pump Speed	Shipping Weight	Pump Measurements
P3 2 H/P	1500	400	1½ in.	50, Geared 8 to 1	700	4-in. bore, 3, 4, 5 stroke
P5 3 "	2000	400	2 "	" " "	900	5-in. " 3, 4, 5 stroke

H. J. HUSH, 39-41 Cortlandt Street, New York

High Grade PUMPS Vacuum Boiler Feed

Pressure and Tank Service

Condensers, Feed Water Heaters, Water Cooling Apparatus

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LAWRENCE PUMP AND ENGINE CO.

P. O. BOX 70, LAWRENCE, MASS.

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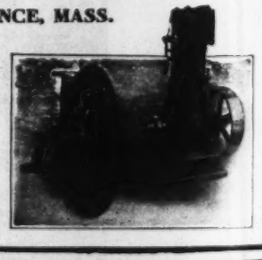

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FOR EVERY SERVICE
As Exclusive Centrifugal Pump Specialists, our 26 years' experience may be of value to you
We send Catalog E2 on request

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Pumping Machinery for Every Service
Pumps with Perfect Balanced Piston Valves

Simple, Compound and Triple Expansion Jet and Surface Condensers

NEW YORK OFFICE 90 WEST ST.

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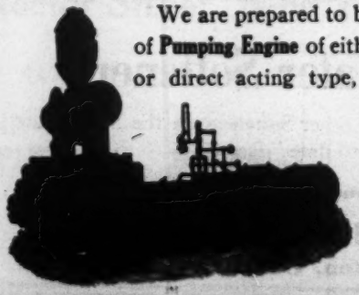
STEAM PUMPING ENGINES



We are prepared to build the most advanced type of **Pumping Engine** of either the crank and fly-wheel or direct acting type, for **Water Works, Mines** or **Irrigation**; and centrifugal where adaptable.

R. D. WOOD & CO.

400 Chestnut Street

PHILADELPHIA

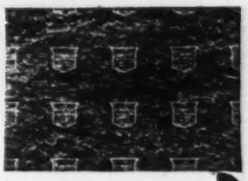
Dean Steam Pumps

Single and Duplex Pumps, Boiler Feeders, Water Supply Pumps, Fire Pumps, Air Pumps and Condensers, Hydraulic Pumps

DEAN BROS. STEAM PUMP WORKS

INDIANAPOLIS, IND.

All the Good Features of Other Packings Won't Balance Those of PERMANITE



That may sound like a mere claim, but it's common sense.

Where can you find any other packing that can be used for the lowest as well as for the highest pressures; that is absolutely impervious to the action of heat, steam, ammonia, air, oil or anything else; that will make tight joints on rough or uneven surfaces, and that never needs following up?

PERMANITE is also the toughest and most durable packing on the market. It will last *three times as long* as any other packing when used under similar conditions.

We realize that these claims seem strong, but we know that permanite will do all we say, and are willing to stand back of our claims and refund your money if it doesn't. Will you send us a trial order with that understanding?

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H. W. JOHNS-MANVILLE CO.

Baltimore, Boston, Buffalo, Chicago, Cleveland, Dallas, Detroit, Kansas City, London, Los Angeles, Milwaukee, Minneapolis, New Orleans, New York, Philadelphia, Pittsburg, San Francisco, Seattle, St. Louis

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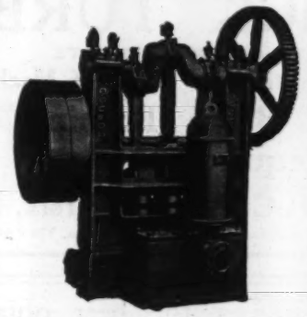
The economy of Goulds Triplex Power Pumps for Boiler Feeding and other duties is acknowledged by Engineers everywhere. In our different types we can meet any condition of service, capacity or working pressure, reducing the cost of operation to a minimum.

When driven by belt or direct connected to Electric motor they require practically no attention and when working under most conditions can be operated entirely automatic.

Write for catalog No. 65



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Seneca Falls, N. Y.

New York, Pittsburg, Denver, Boston, Chicago, San Francisco, Louisville, Montreal, Philadelphia, St. Louis, Los Angeles.

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There's a Reason

why the genuine

Edson Diaphragm Pumps

are the **accepted standard throughout the world.** Over a half century of experience as **Pump Makers** and constant striving for improvement has resulted in a Pump that is absolutely **perfect in every detail.**

The Envy of Imitators

Insist on having the **genuine**—Look for the name in full, **Edson Mfg. Co., Boston, Mass.,** on the lip of every pump.

Complete Outfits, including Pump, Edson Special Suction Hose, Extra heavy Brass Couplings, Strainer and Spanner **ready for business.** Extra lengths of **Suction Hose** guaranteed **Diaphragms** and duplicate Pump Parts **carried in stock.**

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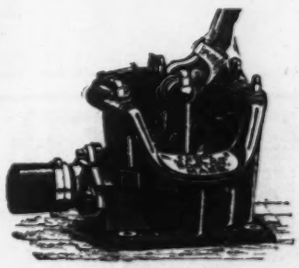

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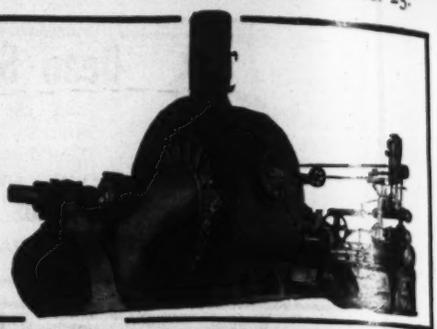

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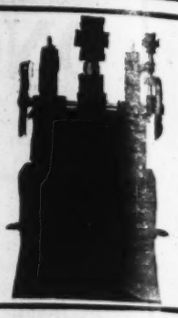

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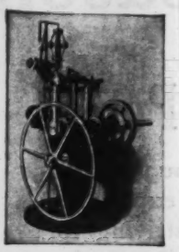

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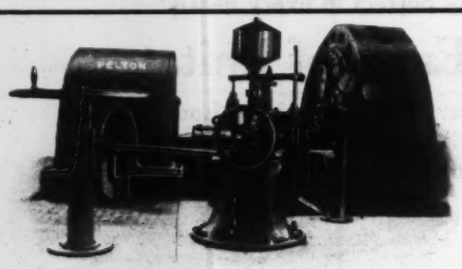

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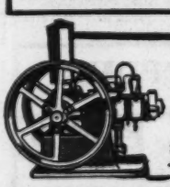

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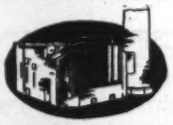

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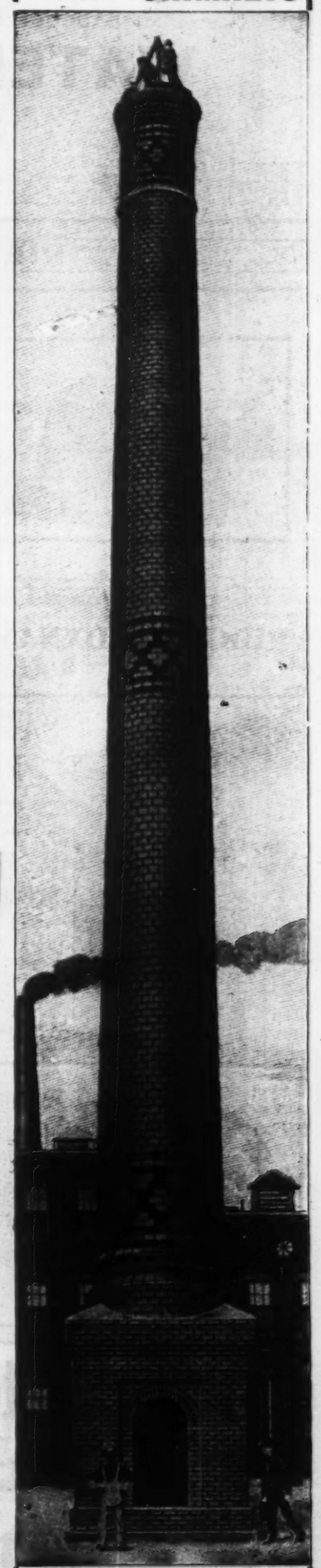

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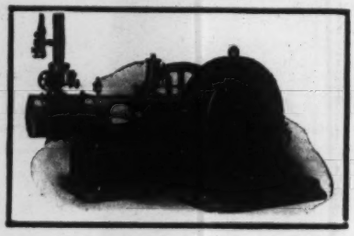

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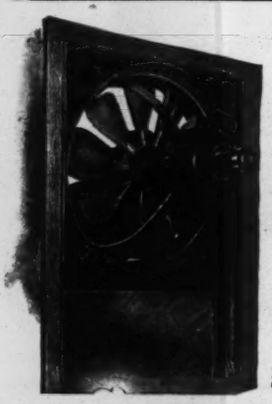

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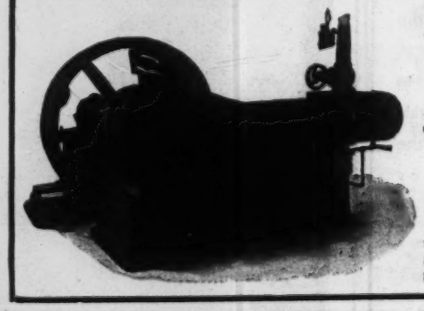

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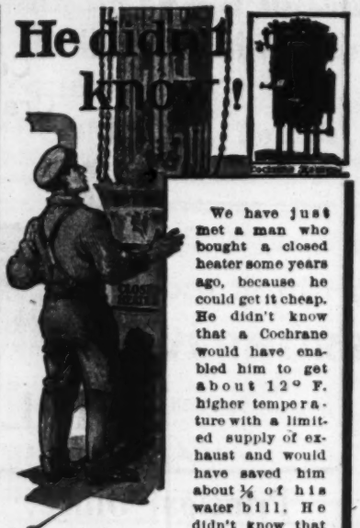

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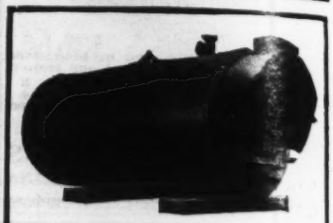

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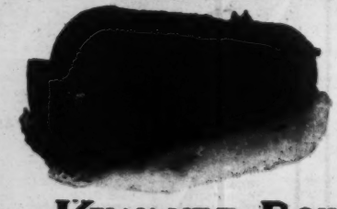

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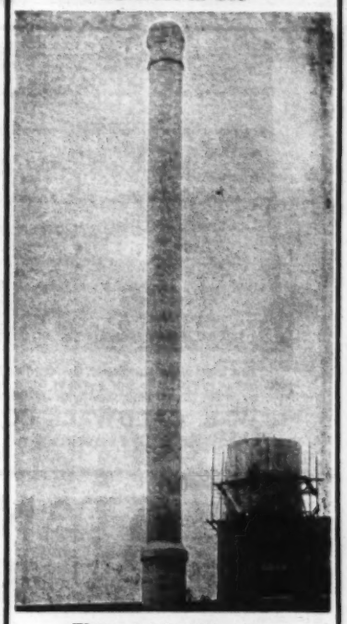

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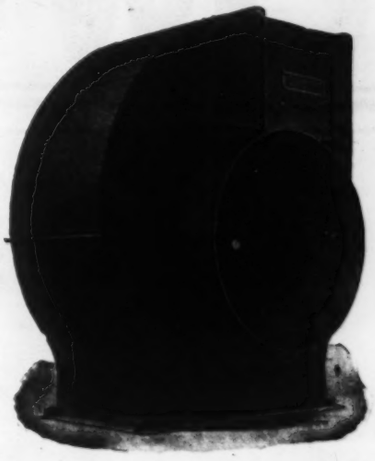

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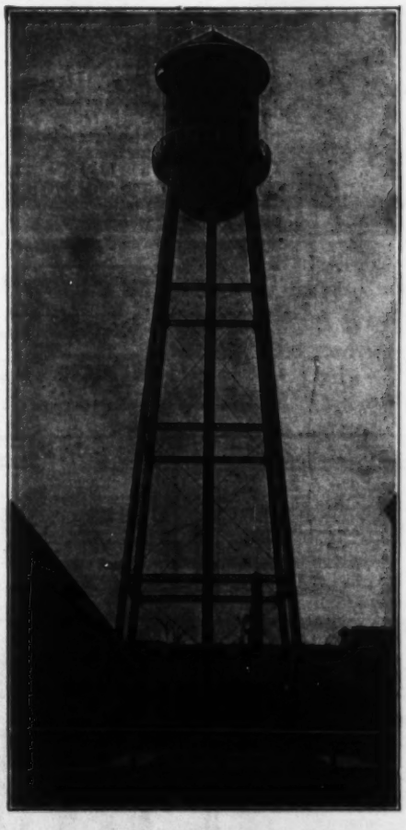

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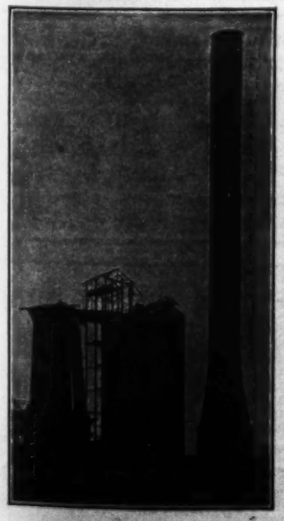

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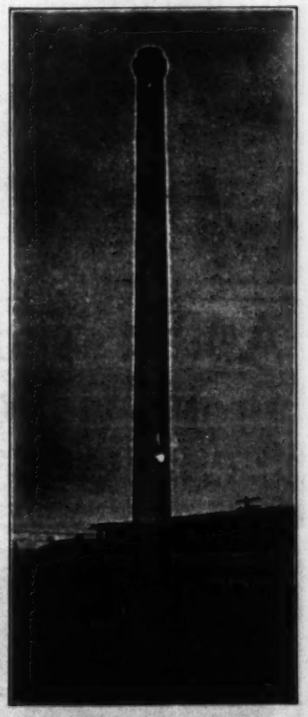

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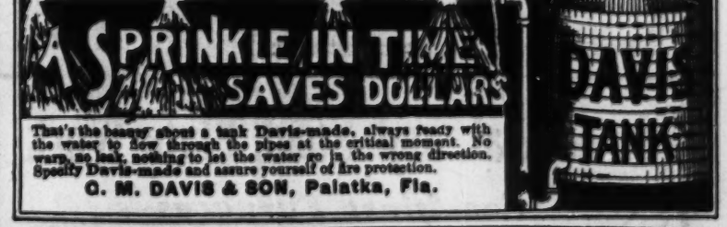

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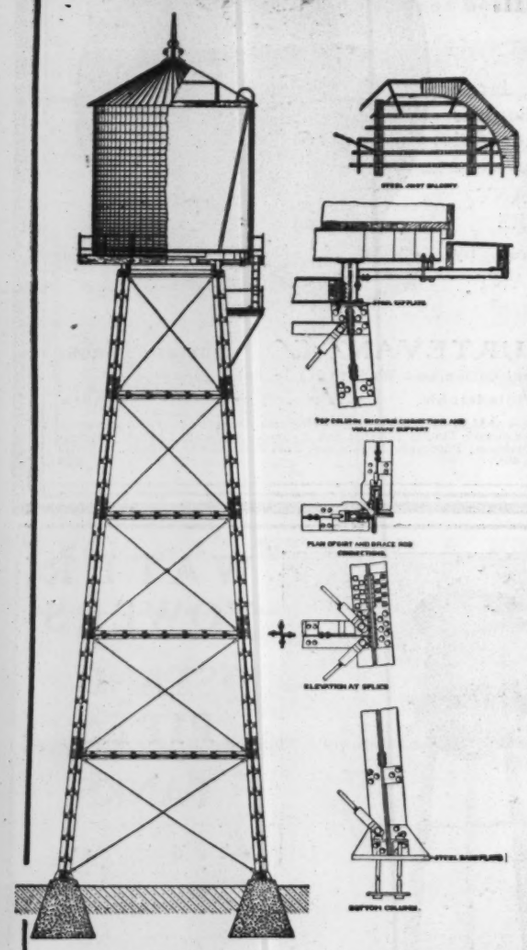

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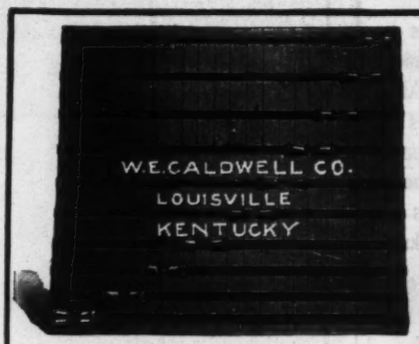

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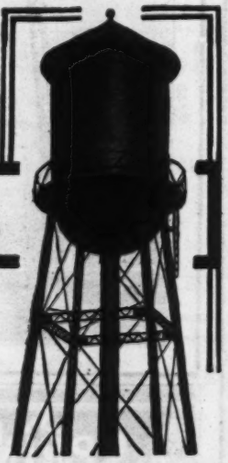

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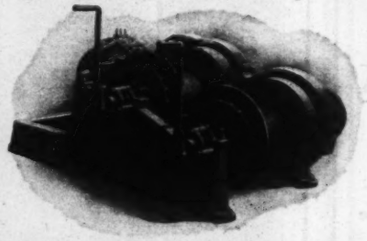

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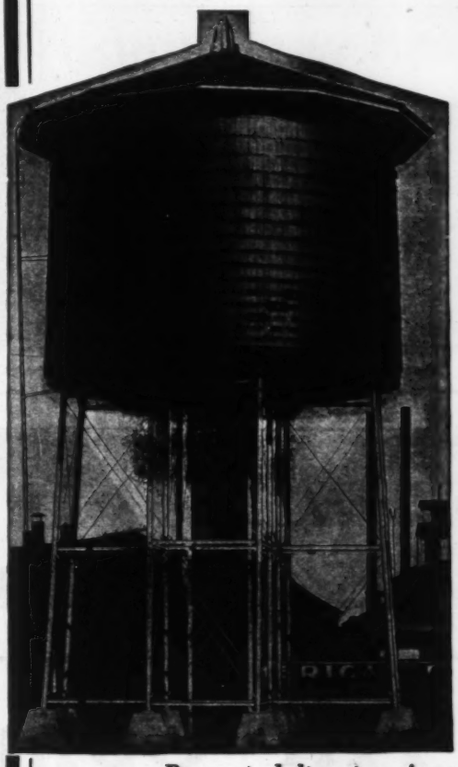

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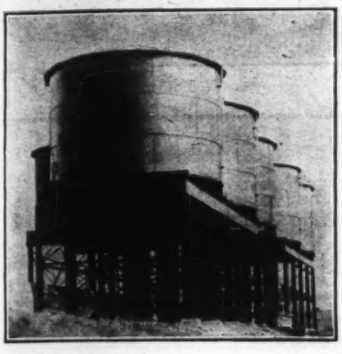

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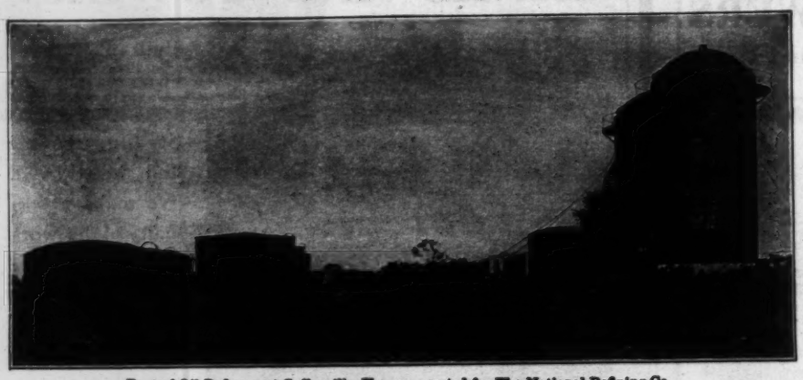

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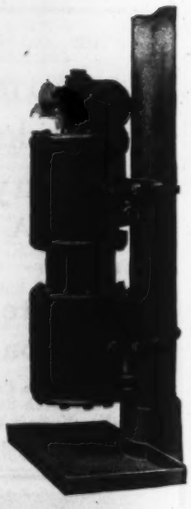

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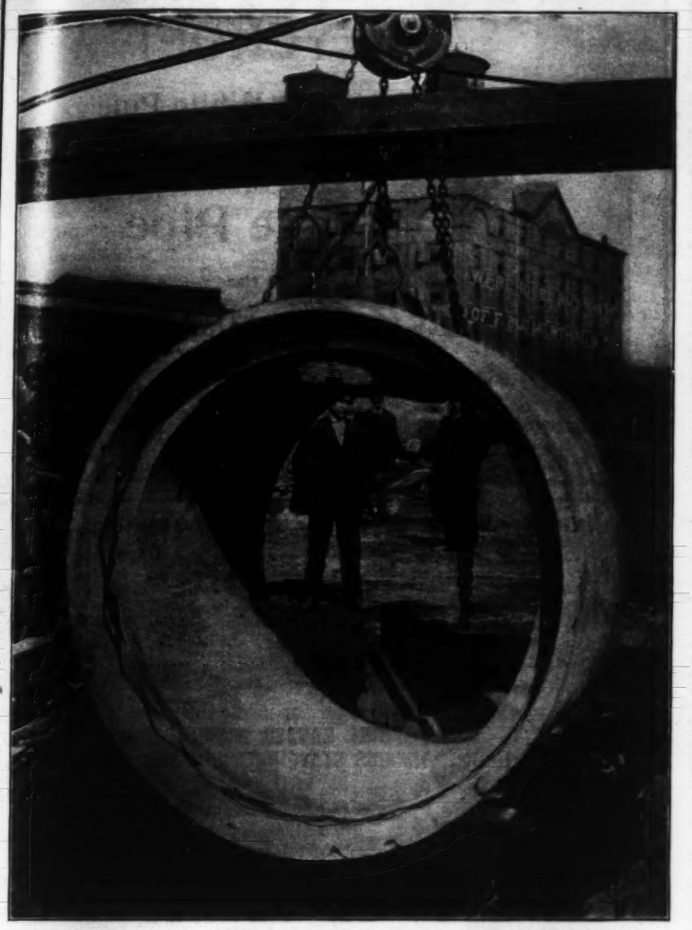

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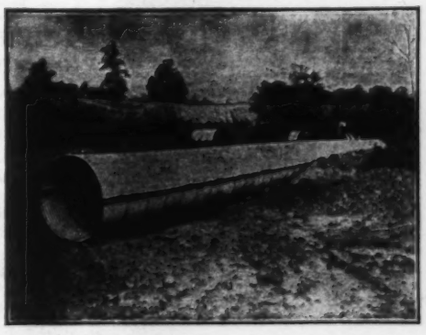

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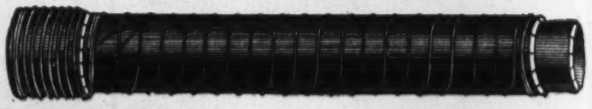

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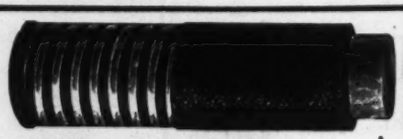

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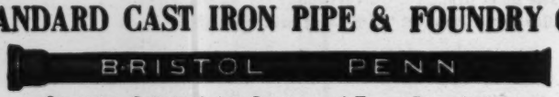

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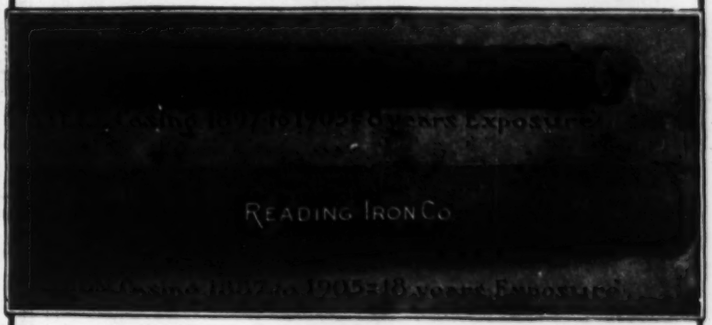

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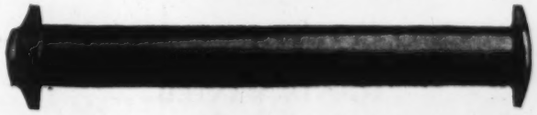

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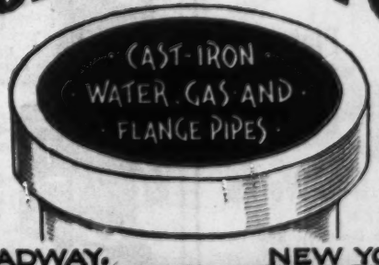

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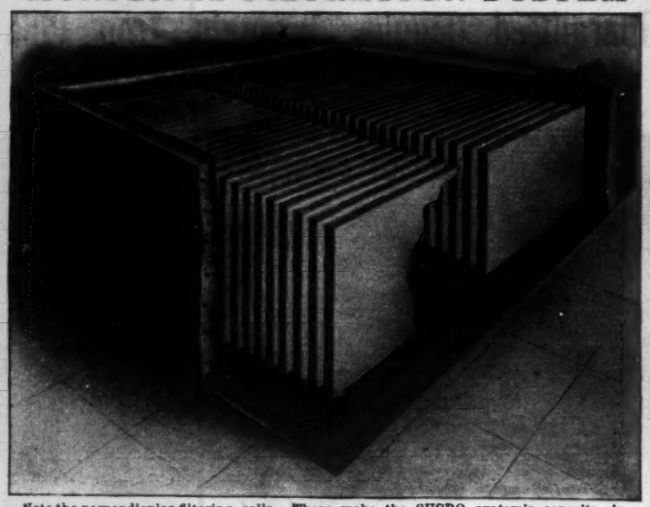

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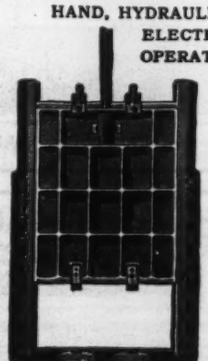

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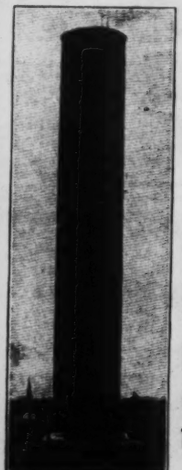

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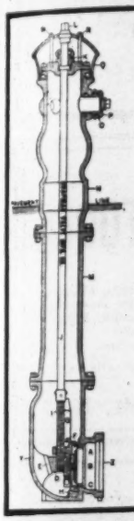

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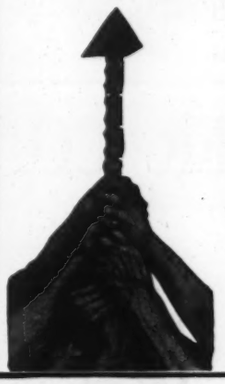

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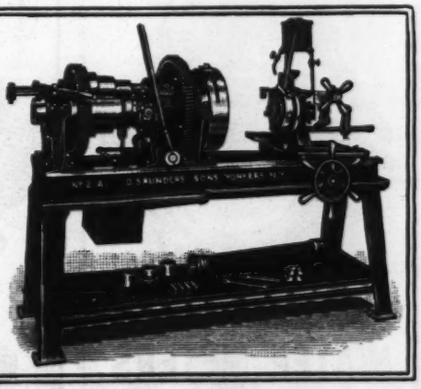

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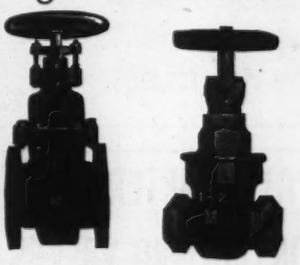

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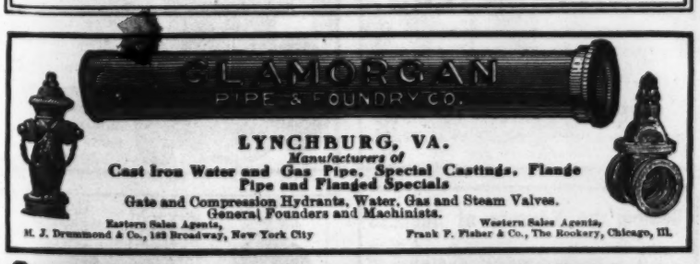

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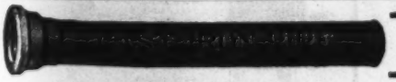

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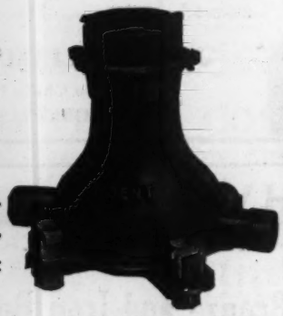

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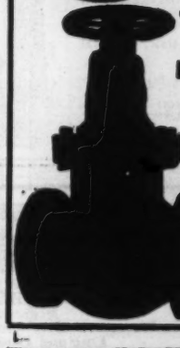

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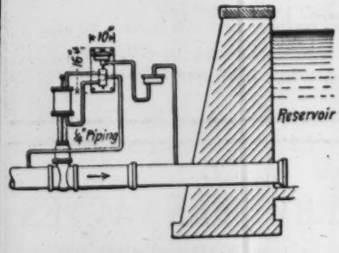

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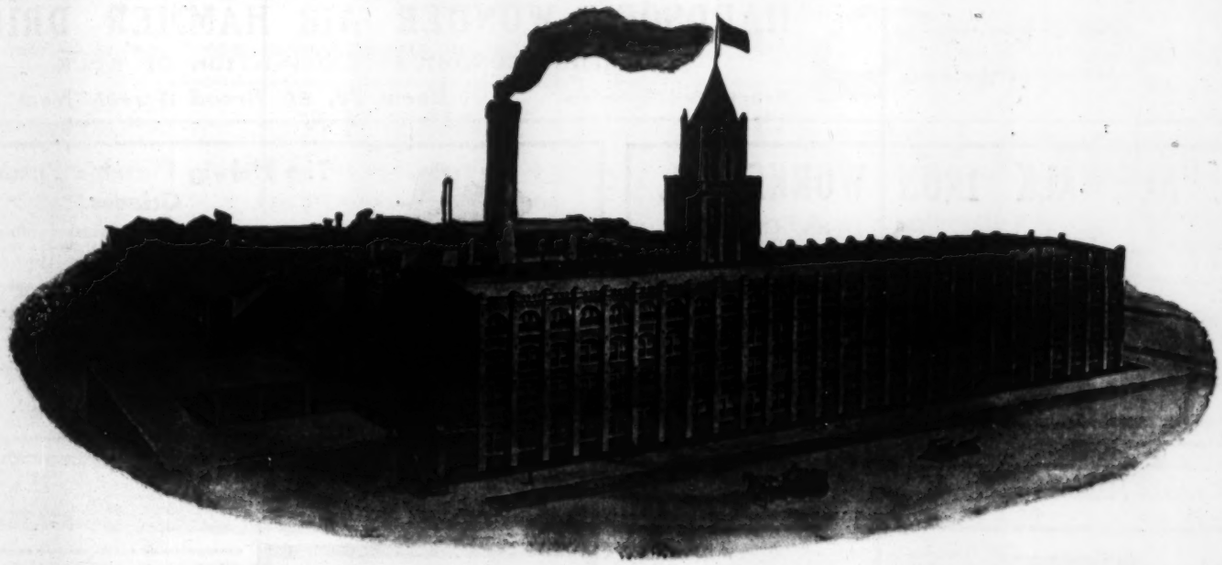

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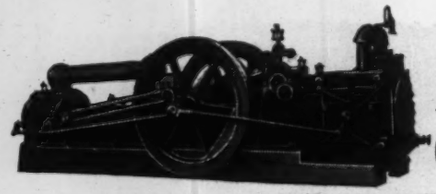

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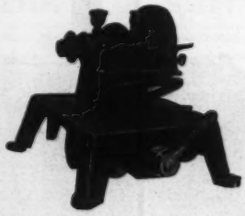

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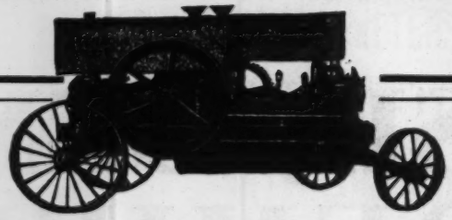

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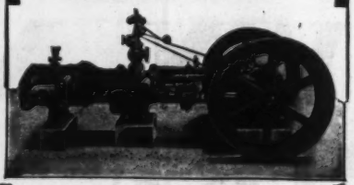

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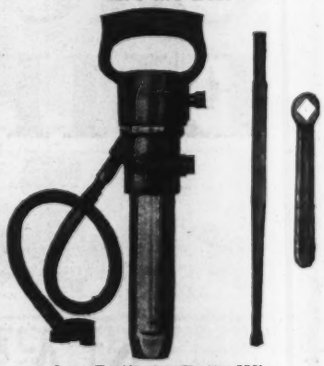

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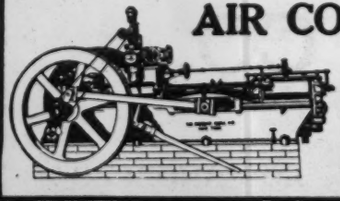

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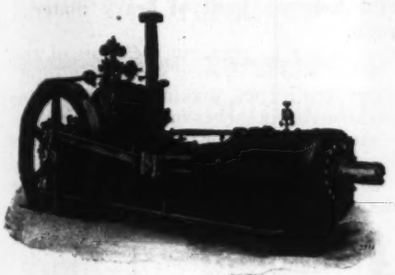

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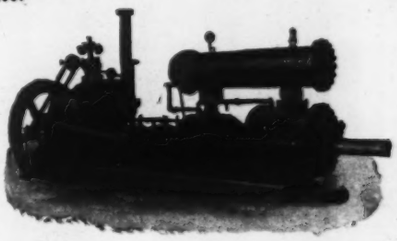

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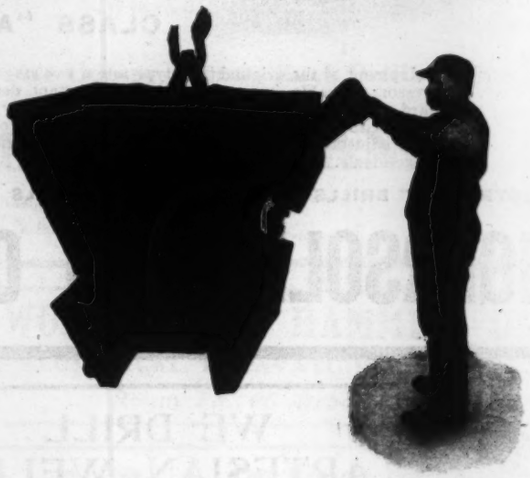

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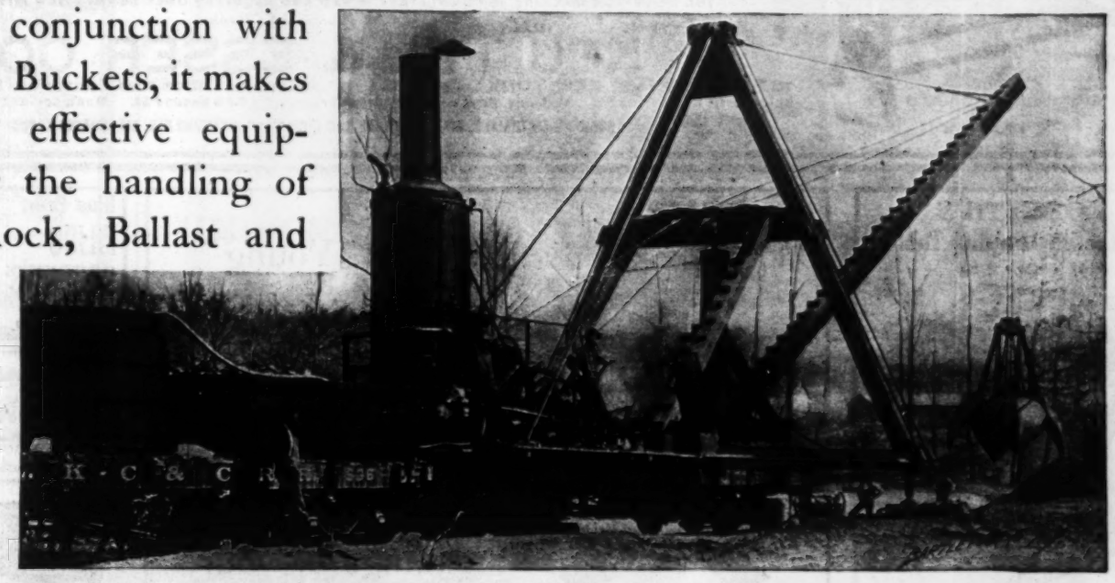

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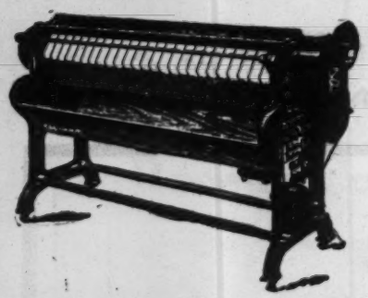

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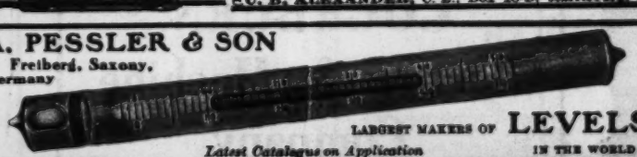

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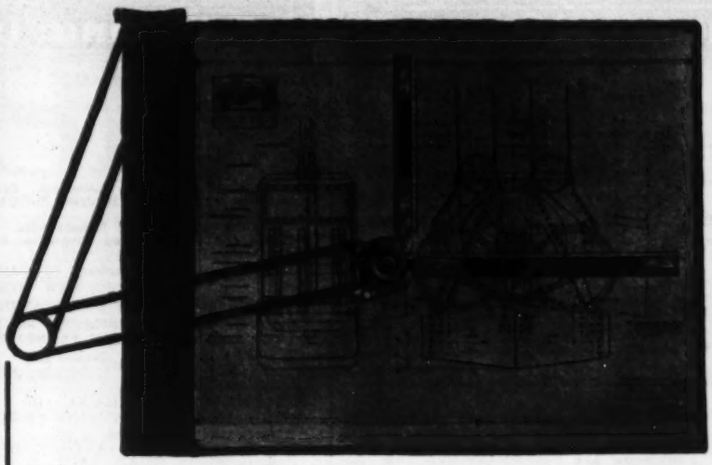

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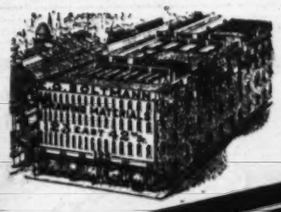

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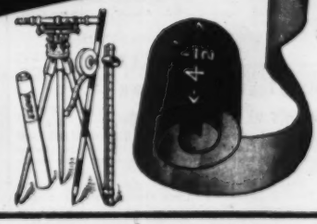

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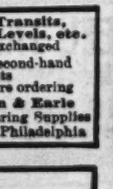

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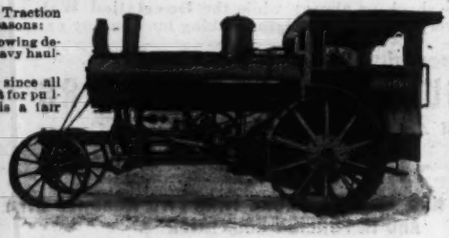

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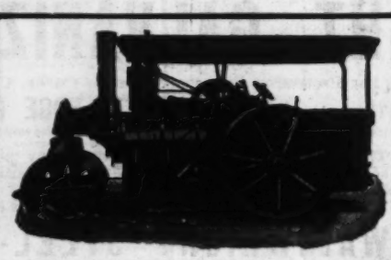

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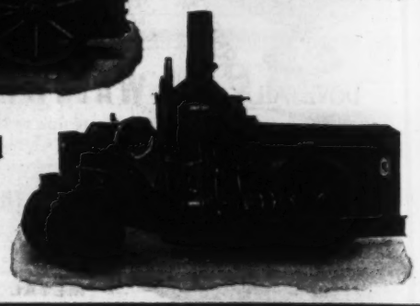

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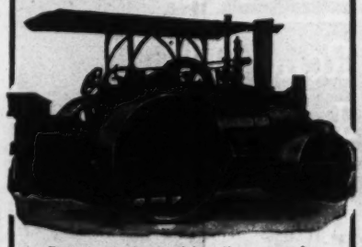

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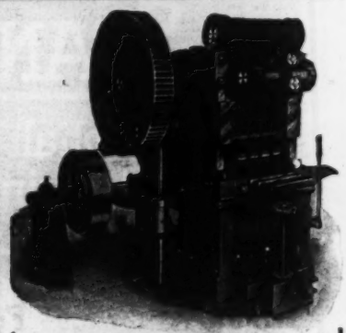

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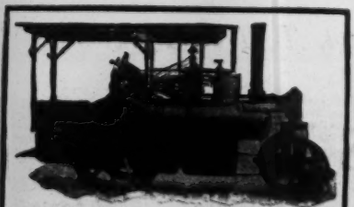

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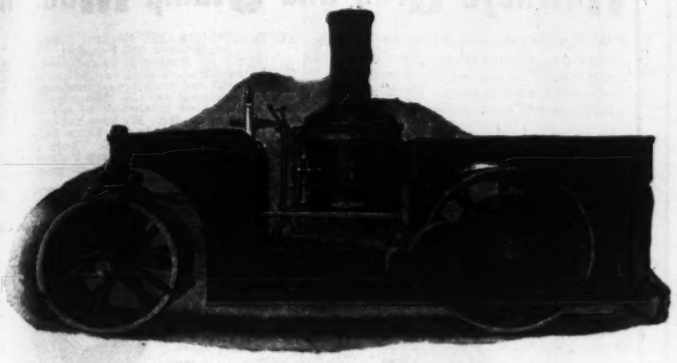

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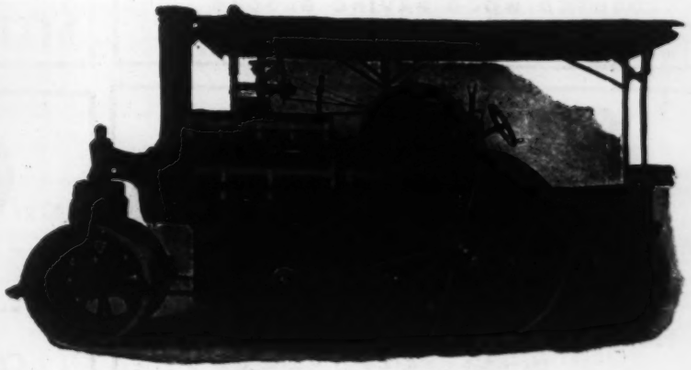

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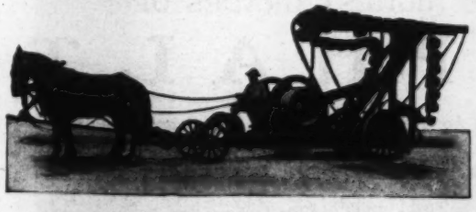

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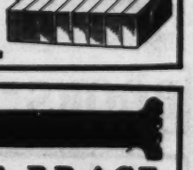

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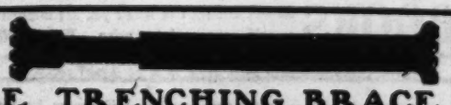

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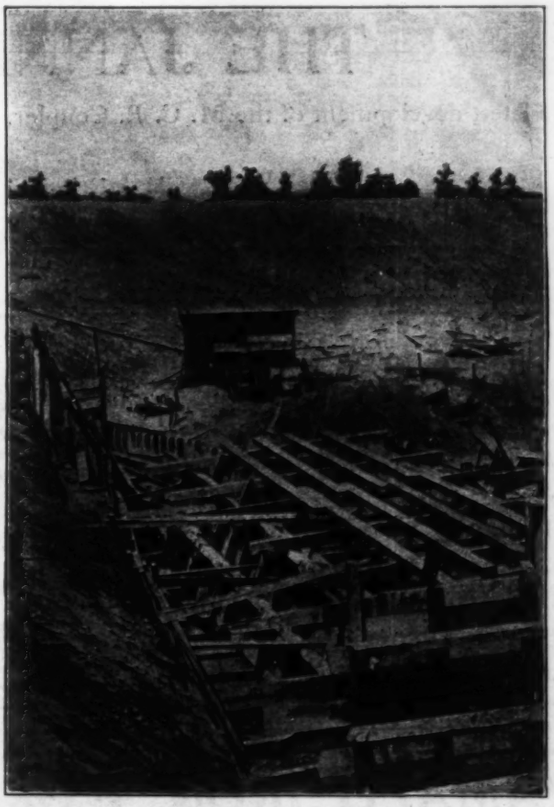

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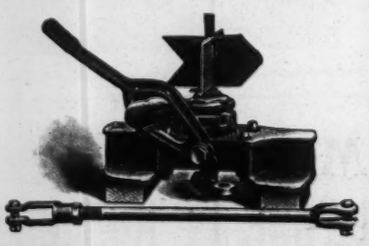

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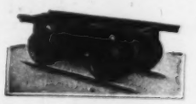

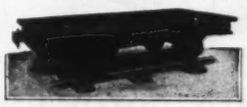

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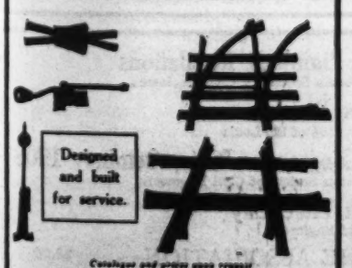

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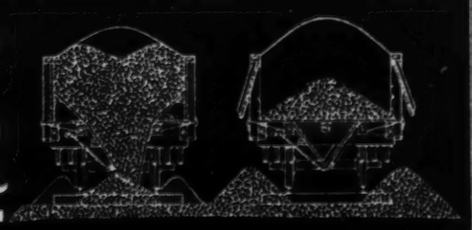

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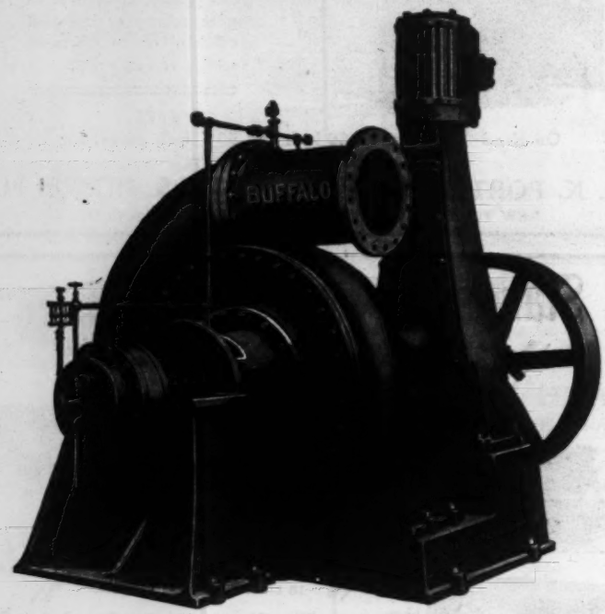

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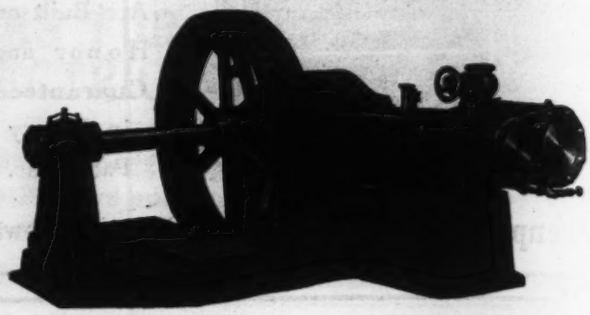

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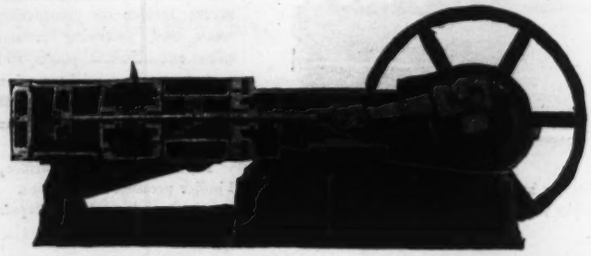

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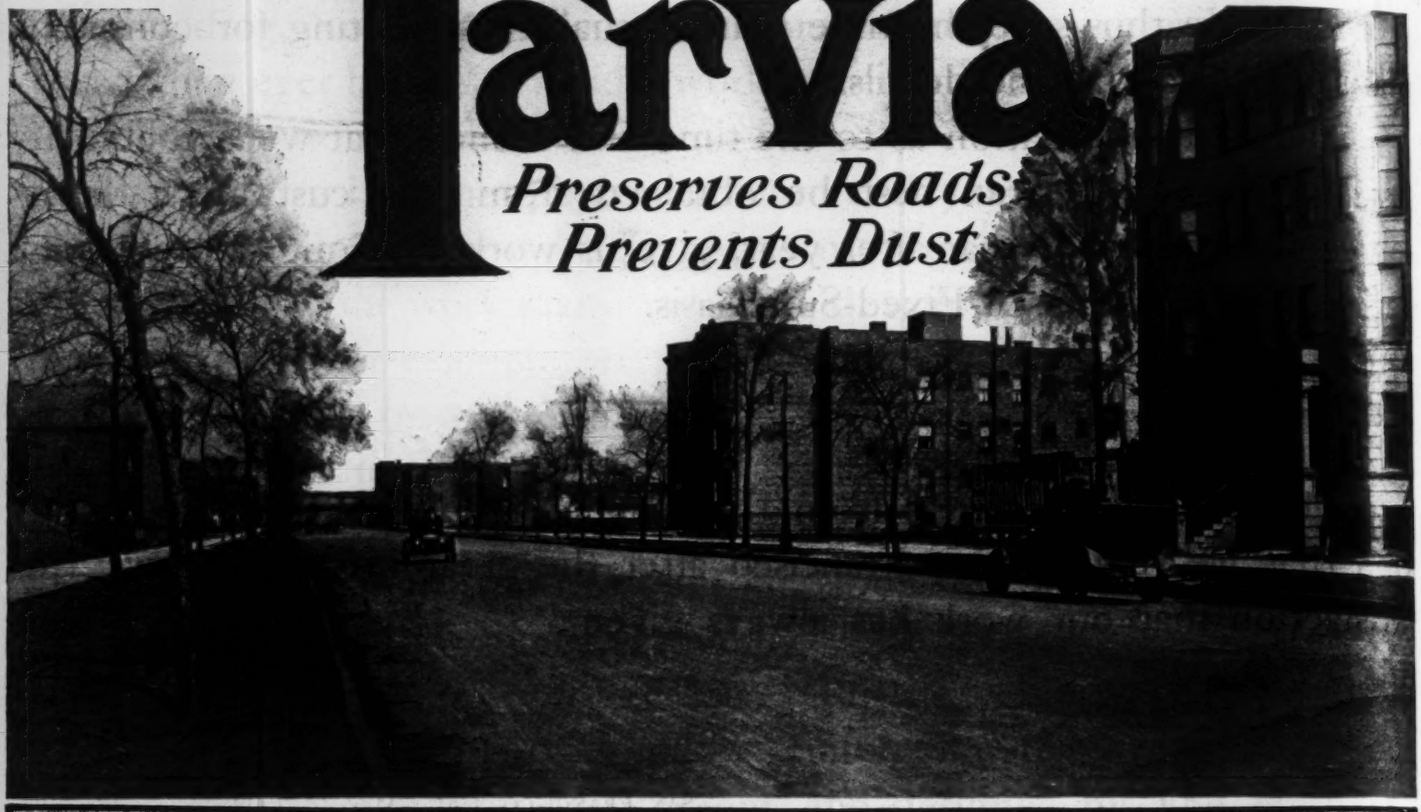

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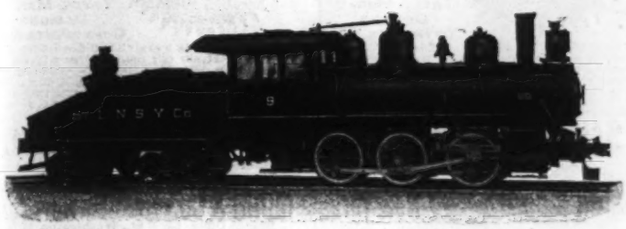

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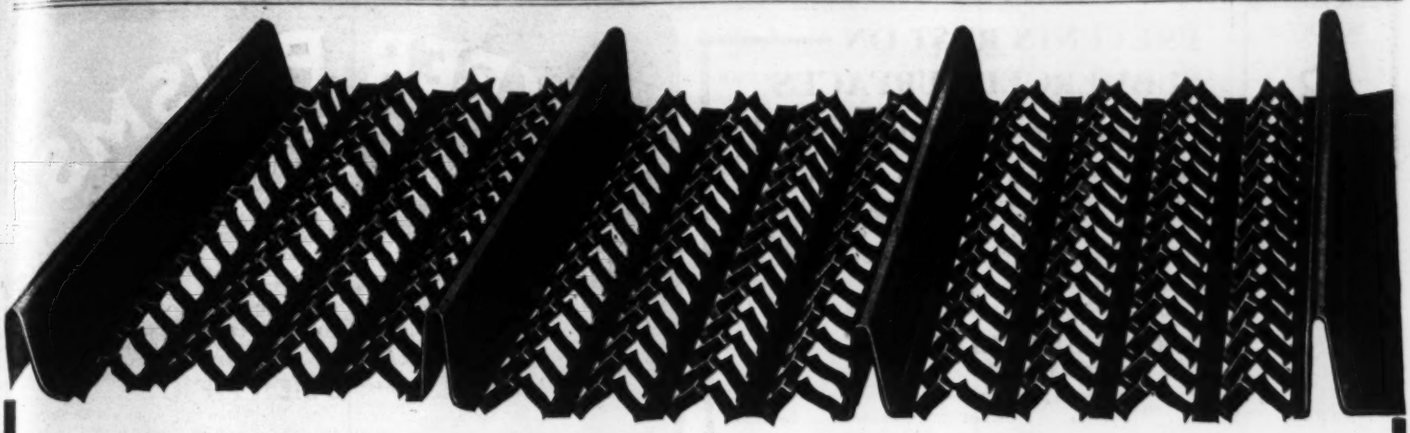

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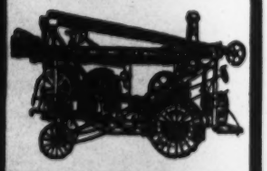
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CAUSEWAY.

Galveston, Texas.

Notice is hereby given that sealed proposals in duplicate will be received at the Office of the Auditor of the County of Galveston, State of Texas, until the 28th day of June, 1909, at 12 o'clock noon, for the building of a Causeway across Galveston Bay, between Galveston Island and Virginia Point, and will be publicly opened and read at that time.

Proposals will be received for the Causeway in its entirety and for any of the three sections, the Arch Bridge, the Lift Bridge and the Roadway, comprising the same.

The entire Causeway will be 10,642 feet long. The Arch Bridge will be 2,472 feet long; the Lift Bridge will have a clear span of 100 feet, and the Roadway will be about 8,170 feet long.

Contractors bidding on the entire Causeway must divide their bids into three parts, for the Arch Bridge, the Lift Bridge and the Roadway.

Plans and specifications may be seen, and forms of proposal and contract may be obtained at the offices of the County Engineer or County Auditor of Galveston County. Plans and specifications may also be seen at the offices of the Chief Engineer of the G., C. & S. F. Railway, Galveston, Texas; Bridge Engineer of the G., H. & S. A. Railway, Houston, Texas; Bridge Engineer of the A., T. & S. F. Railway, Chicago, Ill.; Stone & Webster, Boston, Mass., and the Concrete-Steel Engineering Company, Park Row Building, New York, N. Y. Copies of the specifications and plans may be obtained from the Concrete-Steel Engineering Company upon making a deposit of $20.00.

Each proposal must be accompanied by a certified check for three per cent. (3%) of the price or prices bid, made payable to the order of John M. Murch, Auditor of Galveston County, to be forfeited to the County of Galveston as liquidated damages in case of failure on the part of the bidder to enter into a contract for the execution of the work, and to furnish satisfactory surety bond as hereinafter stipulated. The check will be returned to the successful bidder as soon as the contract is executed, and to the unsuccessful bidders after the award is made.

A bond equal to twenty per cent. (20%) of the contract price or prices but not in excess of three hundred thousand dollars ($300,000), with a satisfactory surety company, will be required for the faithful performance of the work, said bond to remain in force until the final completion and acceptance of the work.

Bidders must acquaint themselves with the plans and specifications for the work, and by personal examination satisfy themselves of the nature, character and location of the proposed work, that no misunderstanding may arise in regard to the character and quantity of the work.

No information derived from maps, profiles, plans, specifications, or from County officials, shall in any way relieve the contractor from any risk or from fulfilling any and all of the terms of the contract and specifications.

The blank form of proposal attached to the specifications shall be used in making out the bid or bids. The price or prices must be written in the proposal and also stated in figures, and any proposal not in accordance with these instructions, or not on the blank furnished, will be rejected. If any discrepancies occur between the written and figured prices, those most favorable to the County of Galveston will be taken as the intention of the bidder.

Proposals will be entertained only from parties who have at their command the necessary capital, plant and experience for properly doing such work.

No permission will be given for the withdrawal of any proposal.

The person or persons to whom the contract may be awarded will be required to execute the contract, with surety within twenty (20) days from the date of service of notice to that effect; and in case of failure or neglect to do so, he or they will be considered as having abandoned it.

Bidders must state in their proposal their full names and business addresses, and the names and business addresses of all persons interested with them.

Envelopes containing proposal must have endorsed thereon, "Proposal for Causeway."

The right is reserved by the County to accept any proposal or any part thereof, or to reject any or all proposals.

JOHN M. MURCH,
County Auditor.

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SEWERS.

Westfield, N. J.

Sealed proposals will be received by the Council of the Town of Westfield, N. J., at the Town Rooms, No. 129 Elm Street, Westfield, N. J., on Monday, June 28th, 1909, at 8:15 P. M., for constructing sanitary sewers and appurtenances in said Town.

The Engineer's approximate estimate of quantities is as follows:

10,046 lin. ft. 8-in. vitrified pipe sewer.
2,610 lin. ft. 10-in. vitrified pipe sewer.
1,391 lin. ft. 12-in. vitrified pipe sewer.
4,508 lin. ft. 15-in. vitrified pipe sewer.
60 lin. ft. 8-in. cast-iron sewer.
500 lin. ft. 10-in. cast-iron sewer.
320 lin. ft. 12-in. cast-iron sewer.
412 lin. ft. 14-in. cast-iron sewer.
52 Manholes.
586 Branches.
10,000 lbs. Special Castings.
3 Flush Tanks.
6 Combined Manholes and Flush Tanks.
4 Drop Connections.
50 Extension Connections.

Each proposal must be accompanied by a certified check for $1,000.00, payable to the order of the Treasurer of the Town of Westfield, signed by the bidder and without condition or endorsement of any kind, as an evidence of good faith, and the successful bidder will be required to furnish a bond of $15,000.00, with sureties acceptable to the Council, to guarantee the faithful performance of the contract.

The Council reserves the right to reject any or all bids.

Duplicate plans and forms of proposal, specifications and contract may be obtained at the office of A. W. Vars, Town Surveyor, No. 129 Elm Street, Westfield, N. J.

LLOYD THOMPSON,
Town Clerk.

Dated June 7th, 1909.

FORT MONROE, VA., May 29th, 1909. Sealed proposals, in triplicate, will be received until 10.00 A. M., June 30, 1909, for the construction, heating, plumbing, electrical wiring and fixtures of two sets of quarters for four officers at Fort Monroe, Va. Information on application. Bidders may see plans and specifications in Office Chief Quartermaster, Department of East, Governor's Island, N. Y. Bidders on proposals must state names of manufacturers supplying them with material. Deposit of certified check $25.00 guaranty return plans and specifications. United States reserves the right to accept or reject any or all bids or any part thereof. Bids must be enclosed in sealed envelopes plainly marked as such and addressed to ERNEST R. TILTON, Captain & Q. M., U. S. A., Constr. Q. M.

STATE OF NEW YORK,
OFFICE OF SUPERINTENDENT OF PUBLIC WORKS.
Albany, June 9th, 1909.

NOTICE TO CONTRACTORS.

Sealed proposals will be received by the undersigned at his office in the Capitol in Albany, N. Y., until twelve o'clock noon of Tuesday, July 13th, 1909, at which place and hour they will be publicly opened and read, for improving the New York State Canals pursuant to the provisions of chapter 147 of the Laws of 1903, and of the amendments thereto, as follows:

1.
CONTRACT NO. 20-A.
Erie Canal, Section 4.

River and land line and other work necessary to complete the canal between Little Falls and Mindenville.

Length, 4.5 miles. Sheets 1, 7 and 103 to 110, inclusive.

2.
CONTRACT NO. 20-B.
Erie Canal, Section 3.

For dredging a channel in the Mohawk River and performing work incidental thereto between Mindenville and Canajoharie.

Length, 10.1 miles. Sheets 1, 6; 85 to 102, inclusive; 113, 125, 126, 137A, 141, 142, 143, 144 and 145.

3.
CONTRACT NO. 20-C.
Erie Canal, Section 3.

For dredging a channel in the Mohawk River and performing work incidental thereto between Canajoharie and Yosts.

Length, 7.9 miles. Sheets 1, 5a, 71a; 72 to 84, inclusive; 85a, 111, 112, 121, 122, 123; 136 to 140, inclusive; 145.

4.
CONTRACT NO. 20-D.
Erie Canal, Section 2.

For dredging a channel in the Mohawk River and performing work incidental thereto between Yosts and Rexford Flats.

Length, 36.2 miles. Sheets 1 to 5, inclusive; 8 to 71, inclusive; 114 to 120, inclusive; 127 to 135, inclusive; and sheet 145.

5.
CONTRACT NO. 23.
Erie Canal, Section 9.

Land line from Kings Bend to Genesee River.

Length, 5.63 miles. Sheets 1 to 107, inclusive and sheets 73a and 73b.

Plans may be seen and detailed specifications, engineer's estimate of quantities, proposal blanks, form of contract and bonds required and other information for proposals may be had at the office of the Superintendent of Public Works at Albany, N. Y.; at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y.; at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y.; and at the canal office, Spaulding's Exchange, Buffalo, N. Y.

Copies of detailed plans or drawings may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment to him of the cost of producing them.

Monthly estimates will be paid of ninety per centum (90 per cent.) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or State bank in good credit within the State and payable at sight to the Superintendent of Public Works for five per centum (5 per cent.) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The amount of bond required for faithful performance will be ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, and an additional bond, known as the labor bond, in the sum of ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the State for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the State will be enhanced thereby.

F. C. STEVENS,
Superintendent of Public Works.

WASHINGTON, D. C., May 13, 1909.—Sealed proposals will be received at the office of the United States Reclamation Service, Miller Building, North Yakima, Washington, until 2 o'clock p. m., July 30, 1909, for the construction of Sulphur Creek Wasteway, near Sunnyside, Washington. The work consists of the excavation and lining of about one mile of channel and involves the excavation of about 13,300 cubic yards of material and the placing of about 2,100 cubic yards of concrete and 130 cubic yards of paving. For particulars address the United States Reclamation Service at Washington, D. C.; at Miller Building, North Yakima, Washington; or at Sunnyside, Washington. R. A. BALLINGER, Secretary.

U. S. ENGINEER OFFICE, Newport, R. I., May 29, 1909.—Sealed proposals for dredging in harbor at Block Island, R. I., will be received here until 11 a. m., June 29, 1909, and then publicly opened. Information furnished on application. J. C. SANFORD, Lt. Col., Engrs.

For other
PROPOSAL ADVERTISEMENTS
See Pages, 51, 52, 53, 54, 56 and
Construction News, page 212.

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STATE HIGHWAYS.

State of Maryland,
State Roads Commission,
Union Trust Building, Baltimore, Md.

NOTICE TO CONTRACTORS.

Sealed proposals for building ten sections of State Highway, aggregating about 36 miles in the following counties of the State, viz.:

Allegheny County—Two miles beginning at Frostburg and running about one mile west to the Garrett County line and beginning about 1,000 ft. east of Frostburg and running about one mile to Eckhardt Mines.

Garrett County—About 5.55 miles beginning at Oakland and extending north towards Thayerville.

Prince George County—5.75 miles, from Marlboro to Meadows.

Harford County—Two miles, from Forest Hill to St. Ignatius Church.

Queen Ann County—Three miles, from Centerville towards Church Hill.

Talbot County—Three miles, from Easton towards Wye Mills.

Somerset County—Three and one-tenth miles, from Princess Anne towards Westover.

Charles County—Five miles, from La Plata to White Plains.

Baltimore County—Two miles on the Philadelphia Pike, from the Baltimore City limits to Herring Run.

Caroline County—Four and four-tenths miles, beginning at Benton and running 2.6 miles north towards Greensboro and beginning at Benton and running 1.8 miles south towards Bureau.

Proposals will also be received for grading, bridging and draining three sections aggregating about 13 miles in the following counties, viz.:

Anne Arundel County—Five miles, beginning at the Calvert County line, near Owings, and running north about five miles towards Lothian.

Calvert County—Three miles, beginning at Anne Arundel County line, near Owings, and running south about three miles towards Sunderland.

St. Mary County—Five and three-tenths miles beginning at Mechanicsville and running south toward Morganza:

Will be received by the State Roads Commission at its office, Union Trust Building, Baltimore, Md., until 12 o'clock noon, the 30th day of June, 1909, at which time and place they will be publicly opened and read.

Bids must be made upon blanks to be furnished by the Commission on application, and payment of two ($2.00) dollars.

No bids will be received unless accompanied by a certified check for the sum of five hundred ($500) dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Act of General Assembly of Maryland of 1908, Chapter 141, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission, this 11th day of June, 1909.

J. C. BOWERMAN,
Secretary.

JOHN M. TUCKER,
Chairman.

STRUCTURAL IRON AND STEEL.

Portland, Ore.

Sealed proposals will be received at the office of Whidden & Lewis, Architects, 701 Corbett Building, Portland, Oregon, until twelve o'clock, noon, on Thursday, July 1st, 1909, for furnishing, fabricating and delivering at building site all the Structural Iron and Steel for the East Wing of a new Court House to be erected for the County of Multnomah, State of Oregon.

Plans and specifications may be obtained at the office of the architects.

No proposal or bid will be considered unless accompanied by a check, payable to the order of the County Court of Multnomah County, certified by a responsible bank for an amount equal to 10 per cent. of the aggregate proposal, to be forfeited as fixed and liquidated damages in case the bidder neglects or refuses to enter into contract and provide a suitable bond for the faithful performance of said work in the event the contract is awarded to him.

The right to reject any and all bids is hereby reserved.

F. S. FIELDS,
County Clerk.

CONSTRUCTING QUARTERMASTER'S OFFICE, FORT MEADE, S. D., June 1st, 1909.—Sealed proposals, in triplicate, will be received at this office until 10 A. M., Mountain Time, July 2d, 1909, and then opened for constructing Intake Dam and Pipe Line for water system at Fort Meade. Plans and specifications may be seen by intending bidders at the offices of the Chief Quartermaster, Department of the Missouri, Omaha, Neb.; Department of the Colorado, Denver, Colo.; Department of the Lakes, Chicago, Ill.; Department of Dakota, St. Paul, Minn., and this office, at which latter place all information may be obtained upon application. A deposit of $10.00, to insure return, is required before plans are sent on individual application. The United States reserves the right to reject any or all bids or to accept any part of a bid that may be advantageous to the government. Envelopes containing proposals should be endorsed "Proposals for Intake Dam and Pipe Line" and addressed to the CONSTRUCTING QUARTERMASTER, Fort Meade, South Dakota.

MACADAM ROAD.

Hackensack, N. J.

Sealed proposals for the macadamizing and improving of the Belleville Turnpike, in the Counties of Hudson and Bergen, beginning at the Saw Mill Creek, and extending to the Passaic River, will be received by the Joint Committee of the Counties of Hudson and Bergen, at the office of the Clerk of the Board of Chosen Freeholders of the County of Bergen, at the Court House, in Hackensack, N. J., and will be there publicly opened at one o'clock in the afternoon on Monday, June 28th, nineteen hundred and nine.

Plans, specifications and cross-sections may be examined at the office of the State Commissioner of Public Roads, at the State House, Trenton, N. J.; at the office of the Clerk of the Board of Chosen Freeholders of the County of Hudson; at the Court House in Jersey City, N. J., and at the office of the Clerk of the Board of Chosen Freeholders of the County of Bergen, at the Court House in Hackensack, N. J.

Each bid or proposal must be accompanied by a certified check, enclosed therein, drawn to the order of the Director of the Board of Chosen Freeholders of Hudson County or Bergen County, or cash in the sum of one thousand dollars, as a guarantee that if the said work is awarded to said bidder, he will enter into a contract with the Boards of Chosen Freeholders of the Counties of Hudson and Bergen, for the due and faithful performance of the work, which contract, together with the bond of the successful bidder, must be executed within ten days from the time of formal awarding of the contract by the said Boards of Chosen Freeholders. The said bond to be conditioned for the faithful performance of the work, in strict conformity with the plans and specifications, and in the penal sum of at least the total estimated cost of the work.

Both contract and the bond must meet with the approval of the State Commissioner of Public Roads.

E. T. GALLOWAY,
Chairman.

JAMES P. McGOVERN,
Clerk.

Joint Committee of Hudson and Bergen Counties.

U. S. ENGINEER OFFICE, Wilmington, Del., June 15, 1909.—Sealed proposals for dredging Smyrna, St. Jones and Murderkill Rivers, Del., will be received here until 10 a. m., July 2, 1909, and then publicly opened. Information on application. L. H. RAND, Capt., Engrs.

U. S. ENGINEER OFFICE, Room F-7, Army Building, New York, N. Y., May 27, 1909.—Sealed proposals for dredging in Port Chester Harbor, N. Y., will be received at this office until 12 M., June 28, 1909, and then publicly opened. Information on application. W. M. BLACK, Col., Engrs.

U. S. ENGINEER OFFICE, Buffalo, N. Y., June 15, 1909.—Sealed proposals for dredging in entrance channel and basin at Erie Harbor, Pa., will be received here until 11 A. M., July 15, 1909, and then opened. Information on application. W. L. FISK, Colonel Engrs.

DRAINAGE.

Hasbrouck Heights, N. J.

Sealed proposals will be received by the "Riser Ditch Drainage Commission" at their office in the Borough of Hasbrouck Heights, Bergen County, New Jersey, on Tuesday, the Sixth day of July, 1909, until four o'clock P. M., for the deepening and straightening of the main Riser Ditch lying in the Boroughs of Wood Ridge and Hasbrouck Heights, and the Township of Lodi, in the County of Bergen and State of New Jersey.

Approximate quantities:
30,000 cubic yards of excavation.
204 lineal feet of 36-in. earthern pipe.
92 cubic yards of broken stone.

Also for the construction of a Tide Gate and Levee:

Approximate quantities:
1,000 cubic yards of excavation.
1,600 cubic yards of filling.

Also proposals for Lateral Ditch No. 1.

Approximate quantities:
6,000 cubic yards of excavation.

Also for Lateral Ditch No. 2.

Approximate quantities:
14,000 cubic yards of excavation.
110 lineal feet of 36-in. earthen pipe.
25 cubic yards of broken stone.

Map, plans and specifications are open for inspection at the office of the Commission, William J. Zuber, Treasurer, corner of Boulevard and Jefferson Avenue, Hasbrouck Heights, aforesaid.

Proposals will be furnished by him.

A certified check for $1,000 must accompany each proposal.

Commissioners reserve the right to reject any and all bids and also to increase or decrease the proposed work.

By order of the Commission,
ROBERT L. CRAIG,
Secretary.

Dated Hasbrouck Heights, N. J., June 15th, 1909.

PAVEMENT.

Oneonta, N. Y., June 14, 1909.

Notice is hereby given that sealed proposals for paving Main Street in the City of Oneonta, N. Y., will be received by the Board of Public Works of the City of Oneonta, until 7.30 o'clock P. M., July 7th, 1909, at which time at the Board of Public Works Rooms in the City Building they will be opened publicly.

Proposals will be received for paving with Vitrified Brick, in accordance with the duly adopted specifications, and form of proposal which may be obtained from the undersigned on application.

Bids should be made on the form of proposal adopted, and may be delivered to the undersigned at the time and place fixed for opening the same.

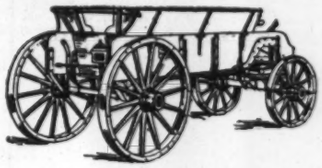
The right is reserved to reject any and all bids.

E. B. HOLMES, Clerk.

For other PROPOSAL ADVERTISEMENTS See Pages, 51, 52, 53, 54, 56 and Construction News, page 212.

The Dumping Wagons You Bought in 1904-05

Where Are They?



Are they on the job today, or on the scrap heap? The important thing is not so much what a dumping wagon costs in the first place, but rather how long it lasts. Figure up how long YOUR wagons lasted.

There are hundreds of Watson dumping wagons that have been in continuous use for five, six and seven years, and are still right on the job. It is really worth your while to know the wagons that stand up from those that have failed to make good. A little investigation will prove that the Watsons of five years ago are right on the job. Find out as much about any other wagon that is offered you.

WATSON WAGON COMPANY

Canastota, New York

The Pioneers in Bottom Dumping Wagon Construction

BRANCH OFFICES:
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970 Old Colony Bldg., CHICAGO, ILL.

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Specialists in Sewerage and Sewage Disposal.

NEW YORK, Oct. 3, 1908.

Engineering News Publishing Co.
220 Broadway, New York.

Gentlemen:

I have your letter of October 2nd.

I think you put too low a value upon your own paper as an advertising medium. The two insertions have brought a flood of applications for plans. Evidently all the contractors used to such work have heard of the proposed construction at Rye.

I do not think that it will be necessary to insert the advertisement again.

Yours truly,

G. Everett Hill.

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handling earth, rock or ballast over the use of flats and plows.

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Our new catalog, descriptive of the most up to date machinery for handling earth and stone, will soon be off the press. Shall we send you a copy?

WESTERN WHEELED SCRAPER CO., Aurora, Ill.

STONE ROAD.

Camden, N. J.

Sealed proposals are invited for building a stone road 14 ft. wide from Coffins Corner to Gibbsboro, a distance of 2¼ miles, of either Amiesite or Asphalt Macadam, in accordance with plans and specifications on file at the office of State Commissioner of Roads, Trenton, N. J., also at office of Clerk of Board.

Estimate of quantities:

Excavation, 4,493.8 cu. yds.

Amiesite or asphalt macadam, 18,458.07 sq. yds.

Cobble gutters, 1,560 sq. yds.

Underdrains, 500 lineal feet.

Bids will be received, immediately opened and publicly read at a meeting of the Stone Road Committee, in the Court House, Camden, N. J., Monday, July 12th, at 11 A. M.

Each bid must be accompanied by a certified check in the sum of $1,000 as a guarantee of good faith on part of bidder.

The Board reserves the right to reject any or all bids.

Dated Camden, N. J., June 19, 1909.

ALFRED L. SAYERS,
Director.

J. J. ALBERTSON, County Engineer.

PUMPING ENGINE, PIPE LINE AND STAND PIPE.

Newport, Ky., June 16, 1909.

Sealed bids will be received by the Commissioners of Water-Works of the City of Newport, Ky., at the office of said Commissioners, until 12 o'clock noon of Thursday, July 8, for furnishing all materials and constructing the following items for the Newport Water-Works.

1. One (1) five million (5,000,000) gallon, vertical, high duty pumping engine.

2. Laying about 13,050 lineal feet of twenty (20) inch cast iron water pipe, including special castings, stop valves and connections.

3. One (1) steel stand pipe on steel braced tower.

Plans can be examined and specifications obtained at the office of the Commissioners of Water-Works, City Hall, Newport, Ky., and at the office of the Engineers, John W. Hill & Sons, 506 First National Bank Bldg., Cincinnati, Ohio.

Each bid must contain the full name of every person or company interested therein, and be accompanied by a bond or certified check in amount as provided by the specifications, to the satisfaction of the Commissioners of Water-Works, and approved by the City Solicitor, as a guarantee that the bidder will accept and execute a contract for the work, if awarded to him.

Should any bid be rejected, the check will be promptly returned to the bidder, and should any bid be accepted, the check will be retained until execution of the contract.

Bids must be made on the printed forms bound with the specifications and contract.

The Commissioners of Water-Works reserve the right to reject any or all bids.

By order of the Commissioners of Water-Works.

JOS. REHLING,
PETER N. BARDO,
WM. F. KRINN.

JOHN W. HILL & SONS, Engineers,
506 First National Bank Bldg.,
Cincinnati, Ohio.

PAVING.

Defiance, Ohio.

Sealed bids will be received by the Board of Public Service, at the office of said Board, until twelve o'clock noon on the sixth day of July, for the paving of North Clinton, Ralston Ave., Second and Jefferson Streets with brick or asphalt block. Approximately 25,000 square yards. MICHAEL J. WALZ, Clerk of Board.

U. S. ENGINEER OFFICE, Army Building, New York, N. Y., June 21, 1909.—Sealed proposals for furnishing and trimming into U. S. dredges during the 12 months beginning July 1, 1909, about 48,000 tons of bituminous coal will be received at this office until 12 M., July 6, 1909, and then publicly opened. Information on application. S. W. ROESSLER, Col., Engrs.

For other PROPOSAL ADVERTISEMENTS See Pages, 51, 52, 53, 54, 56 and Construction News, page 912.

The Hazard in Sewer Contracting

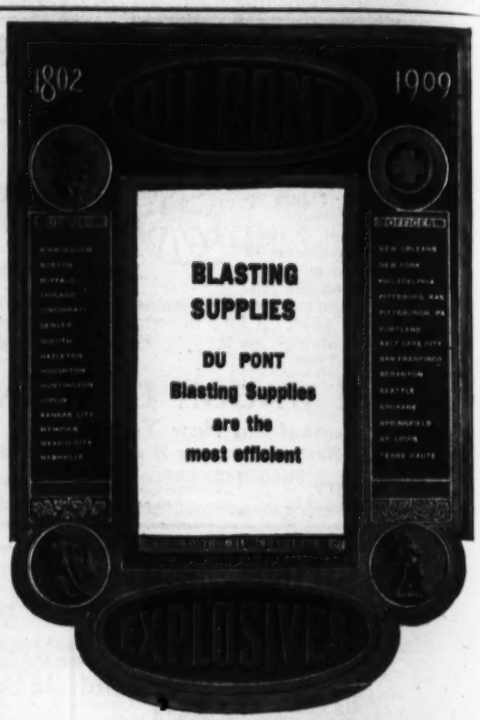
is invariably in the excavation. A thoroughly dependable trench excavating machine eliminates this hazard. Note the qualification. We make it deliberately. **A trench excavating machine which is not thoroughly dependable does not eliminate hazard**—if such a thing be possible, it increases it. This is a fact that we have proven by excavating scores of miles of trenches by machine. Knowledge of this fact is what led us to put the weight, the special materials, the workmanship and the practical features possessed by no other trench excavator into the **Chicago Sewer Excavator.** The result is a thoroughly dependable trench excavating machine, no matter what the conditions are. We do not qualify this last statement in any particular.

We sell the Chicago Sewer Excavator outright, or lease it on a pay-for-work-done lease.

SEND FOR CATALOGUE NO. 102.

Municipal Engineering & Contracting Co.
RAILWAY EXCHANGE, CHICAGO, ILL.

N. B.—Agents wanted in unoccupied territory.



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Everything in the Explosive Line

Goods Guaranteed Equal to the Best Made.
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PAVING AND SEWER PIPE.

Borough of Leechburg, Pa.

4,460 sq. yds. brick or block paving.
3,280 lin. ft. sandstone or concrete curb.
1,230 lin. ft. 8-inch Sewer pipe with house branches.
200 lin. ft. 6-inch Sewer pipe with house branches.
2 Manholes.

Bids received until Tuesday, July 6th, 1909, 7:30 P. M.

The Council reserves the right to purchase the materials for the above work, and also the right to reject any or all bids. No specifications sent. For plans and specifications see JOHN A. HILL, Clerk of Councils, Leechburg, Pa., or ROBT. H. WILSON, Borough Engr., Saltsburg, Pa.

WATER-WORKS.

Delta, Ohio.

Sealed proposals, addressed to the undersigned and marked "Proposals for Water Works," will be received by the Board of Trustees of Public Affairs, of the Village of Delta, Fulton County, Ohio, until twelve (12) o'clock noon of Thursday, July 15th, 1909, at the Council Chamber, in said Village, then and there to be publicly opened and read by the clerk, for the construction of a municipal water works plant with deep wells as a source of supply, and a distribution system consisting of about five and one-third (5⅓) miles of cast-iron pipe from four (4) to ten (10) inches in diameter.

Plans and specifications can be seen and blank forms of proposals obtained at the office of the clerk of the Board, or the Engineers, The Riggs & Sherman Company, 613 The Nasby Bldg., Toledo, Ohio.

The Board reserves the right to award the work as a whole or in separate contracts, to reject any bid or all bids, and to adjust the amount of the work included in the contract to the amount of the funds available for payment for same.

THE BOARD OF TRUSTEES OF PUBLIC AFFAIRS,
W. C. HOCH, Clerk.
Delta, Ohio, June 19, 1909.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 23, 1909.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 26th day of July, 1909, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. Post Office at Platteville, Wisconsin, in accordance with drawings and specifications, copies of which may be obtained from the custodian of site at Platteville, Wisconsin, or at this office, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

For other PROPOSAL ADVERTISEMENTS See Pages, 51, 52, 53, 54, 56 and Construction News, page 212.

The Parsons Traction Trench Excavator

will make and save you money on trench excavations; can be used to better advantage in narrow spaces, on soft ground, in sandy soils; in fact, wherever and whenever a Trench Excavating Machine can be used at all. The Parsons will prove to be the most economical in all respects.

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II. Explosives
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IV. Notes on Shaft Sinking
V. Principles of Tunnel Timbering and Driving
VI. Tunnel Arch Centres
VII. Subaqueous Tunnels and Tunnel Shields
VIII. Subways, or Underground Railways
IX. Special Tunnel Building Plant
X. Some Data Upon the Cost of Tunneling
XI. Ventilation of Tunnels
XII. Air Locks
XIII. Tunnel Notes
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THE ENGINEERING NEWS BOOK DEPARTMENT

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STONE ROAD.

Elizabeth, N. J.

Sealed proposals will be received by the County Road Committee of the Board of Chosen Freeholders of the County of Union, N. J., at the Court House, Elizabeth, New Jersey, at 2.30 P. M., on Friday, July 9, 1909, for the construction of a stone road with the second course of "Amiesite," beginning at South Avenue and extending to Raritan Road.

The length of the roadway betwen said points is about 9,982 lineal feet. The width of the stone work is sixteen (16) feet.

The estimated quantities of the work are as follows:

Excavation	27,367 cu. yds.
Excavations outside road	2,306 cu. yds.
Amiesite Road	17,900 sq. yds.
Macadam Driveways	240 sq. yds.
Belgian block gutters	44 sq. yds.

Plans, profiles and specifications for this work may be examined at the office of the County Engineer, 201 Park Avenue, Plainfield, New Jersey.

Bidders must enclose with their proposals a certified check for One Thousand Dollars ($1,000.00), made payable to the order of Benjamin King, Director of the Board of Chosen Freeholders of the County of Union, N. J., as guarantee that if the contract be awarded to such bidder, the bidder will enter into an agreement with the Board of Chosen Freeholders of the County of Union for the performance of the work according to the specifications.

The said Board of Chosen Freeholders or its Committee reserves the right to reject any or all bids, as they may deem best for the interests of the County.

F. J. HUBBARD,
County Engineer,
201 Park Avenue, Plainfield, N. J.

OFFICE, COMMISSIONERS, DISTRICT OF COLUMBIA, June 14, 1909.—Sealed proposals will be received at this office until 12 o'clock noon, June 28, 1909, for cast iron water pipe specials. Forms of proposals, specifications and necessary information may be obtained from Chief Clerk, Engineer Department, Room 427 District Building, Washington, D. C. HENRY B. F. MACFARLAND, HENRY L. WEST, WM. V. JUDSON, Commissioners, D. C.

STREET PAVING.

Newburgh, N. Y.

Notice is hereby given that sealed proposals will be received at office of City Clerk in City Hall, Newburgh, New York, until 5 o'clock p. m., of Monday, July 12, 1909, for furnishing all materials and labor necessary for permanently improving by paving of that portion of Broadway with vitrified brick, from the west side of Liberty Street easterly to a point about at the crosswalk on Broadway in front of St. John's Church, exclusive of that portion of the street lying between and two feet outside of the tracks of the Orange County Traction Company.

There is about 4,600 sq. yds. to be paved, curb to be reset, etc.

Plans may be seen and specifications furnished upon personal application at office of City Engineer in City Hall after June 28, 1909.

Each bid must be accompanied with a cash deposit or certified check of Five hundred dollars.

The City Council reserves the right to reject any or all bids received.

Dated Newburgh, N. Y., June 21, 1909.

D. J. COUTANT,
City Clerk.

W. J. BLAKE, JR., City Engineer.

PAVING.

Jersey City, N. J.

Want to contract out about 5 miles of resetting and redressing curb, about 5 miles of repaving gutters with Belgian blocks. Also want to hire about twenty good teams with bottom dumpers.

WILLIAM BAKER,
137 South St.,
Jersey City, N. J.

For other PROPOSAL ADVERTISEMENTS See Pages, 51, 52, 53, 54, 56 and Construction News, page 212.

The Buckeye Traction Ditcher

Cuts trenches to a **perfect grade at one passage** over the ground, faster, better, cheaper, and with less effort than any other trenching device known.

This machine will earn its cost many times over for any contractor for water works or pipe line work, or, indeed, for anyone who has farm ditching, open ditching or sewer work to do.

It is not an experiment. It has stood the test of long service under severe conditions. Over 380 machines in the field today **Let us "show you"** how it will save money for you.

Our iron clad guarantee forces the machine to make good, allowing a five days' test with our instructing expert, before any settlement is required. You try; **then** buy.

The Buckeye Traction Ditcher Company
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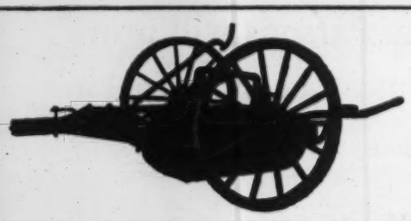

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"K & J" Seamless Drag Scrapers have spoken for themselves for many years.

SEE CATALOG NUMBER 85-F

"K & J" Plows are made in all sizes, from the Locomotive plow to the small Road Plow.

No. 88

STREET PAVING.

Bayonne, N. J.

Sealed proposals will be received and opened by the Council of the City of Bayonne, N. J., at a meeting to be held in the City Hall on Tuesday, July 6th, 1909, at eight o'clock P. M., for all of the labor and material for the repaving of Broadway from First Street to the Morris Canal bridge.

There will be required about 78,200 square yards of paving, together with curbing and other appurtenances. Bids will be received for either Asphalt, Bitulithic or Bituminous Concrete paving.

All bids must be on the regular forms provided for the purpose; plans and specifications for the work are on file in the office of the City Engineer, where blank forms of proposal or any further information can be obtained.

The amount of bond required is $50,000 and the time allowed for completion is 150 days.

The Council reserves the right to reject any or all bids.

W. C. HAMILTON,
City Clerk.

F. W. DALRYMPLE,
City Engineer.

PAVING.

Dalton, Ohio.

Sealed proposals will be received by the Clerk of the Village of Dalton, Ohio, till 12 o'clock noon, July 10th, 1909, for the improvement of Main Street. Said improvement consists of about 16,000 sq. yds. of brick paving with stone curbing. Plans and specifications are on file at the office of the Village Clerk. Copies of legal advertisement will be furnished on application.

Address VILLAGE CLERK,
Dalton, Ohio.

STEEL BRIDGE.

Danville, Ill., June 18, 1909.

Bids are asked until one P. M., July 14, by S. K. Van Fleet, of Indianola, Illinois, Clerk of the Board of Commissioners, for the construction of a steel bridge over the Little Vermilion River, of a span of 80 feet (c. to c. of pins), with concrete abutments; also the construction of 2,530 cubic yards of approach grade and 40 feet of cast-iron pipe 41 feet in diameter. Plans and specifications are on file in the office of Fisher and McCann, Engineers, Room 310 Garrett Building, 9 West Harrison St., Danville, Illinois.

ROADS.

Newark, N. J.

Sealed proposals will be received by the Committee on Roads and Assessments of the Board of Chosen Freeholders of Essex County, New Jersey, for grading and paving with Bituminous Telford pavement, River Road in the Town of Nutley, extending from the Belleville Town Line to the Passaic County line.

The proposals are to be submitted to the Committee on Thursday, July 8th, 1909, at 2 P. M., at the rooms of the Committee, No. 312 Court House, Newark, N. J., and at no other time or place. Plans and specifications may be seen at above office.

Each proposal to be accompanied with a certified check for five per cent. of the amount of bid, or an approved surety bond for $2,000 to ensure the execution of the necessary contract, and is to be endorsed on the outside with the name of the bidder and the work he proposes to do.

The Committee reserve the right to reject any or all bids.

WALLACE OUGHLETREE,
Director.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C. June 16, 1909.—Sealed proposals will be received at this office until 3 o'clock P. M., on the 21st day of July, 1909, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. Post Office at Shenandoah, Iowa, in accordance with the drawings and specifications, copies of which may be had from the custodian at Shenandoah, Iowa, or at this office, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

CONSTRUCTION OF SEWER OUTLET.—Fort Hancock, N. J., June 17, 1909.—Sealed proposals for constructing a sewer outlet at Fort Hancock, N. J., will be received here until 2 P. M., July 16, 1909, and then opened. Full information will be furnished on application to this office or at the office of the Chief Quartermaster, Department of the East, Governor's Island, N. Y. H., where plans and specifications can be seen. U. S. reserves right to reject any or all proposals. Envelopes containing proposals should be indorsed "Proposals for Sewer Outlet," addressed to W. J. HAWKINS, First Lieut. and Constructing Quartermaster, U. S. Army.

For other PROPOSAL ADVERTISEMENTS See Pages, 51, 52, 53, 54, 56 and Construction News, page 212.

WHEN WRITING ADVERTISERS

Every advertiser is rather interested to know how you got his name, and we would request that when you write, you state that you secured it from the advertisement in

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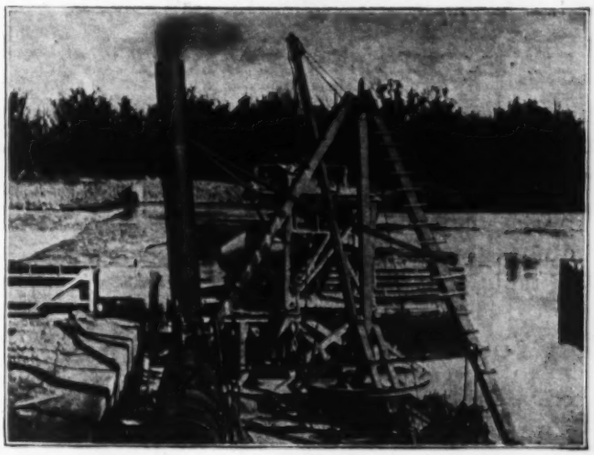

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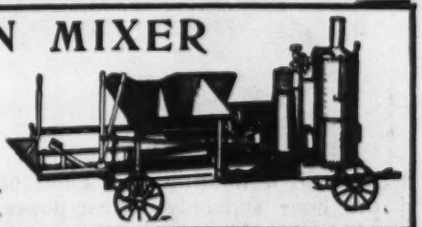

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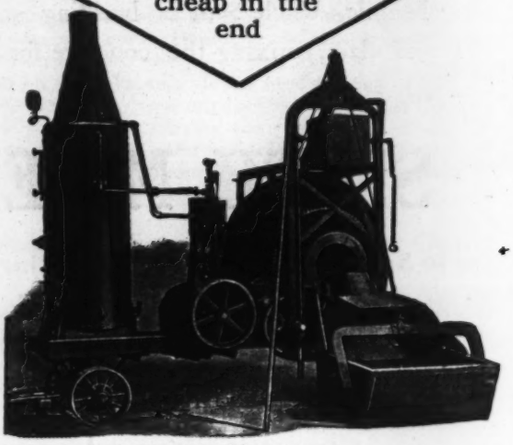

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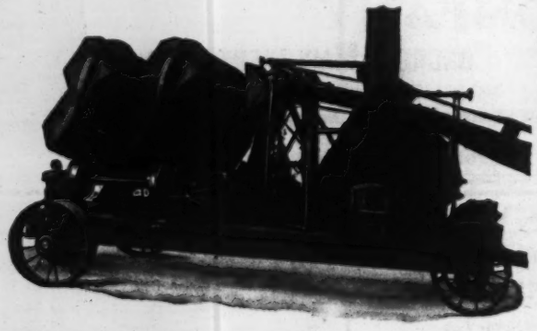

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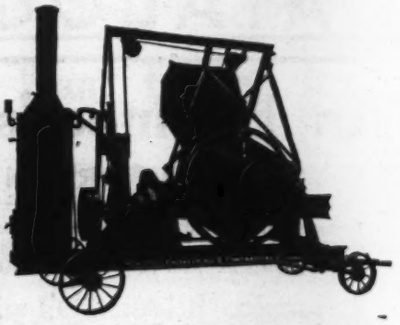

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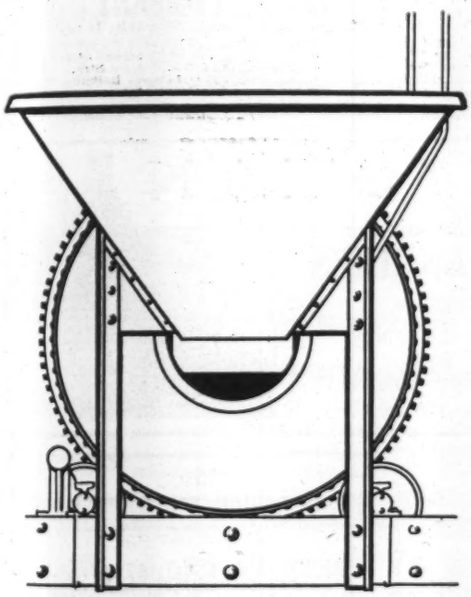

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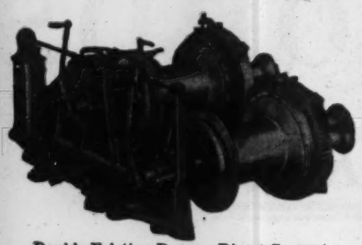

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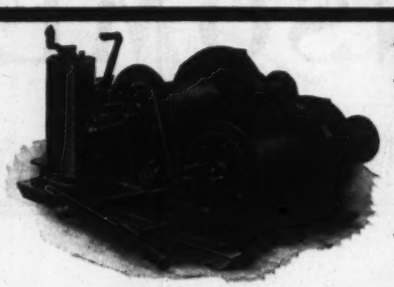

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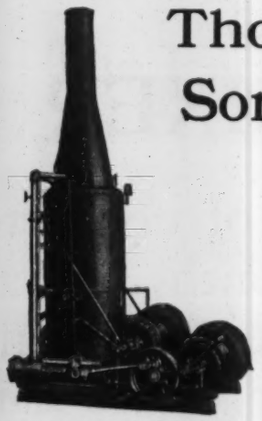

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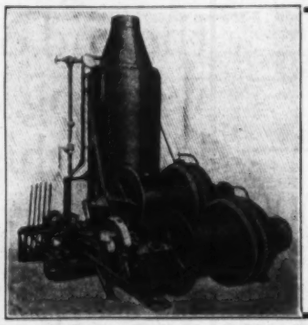

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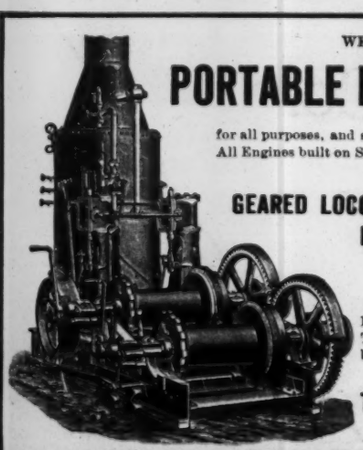

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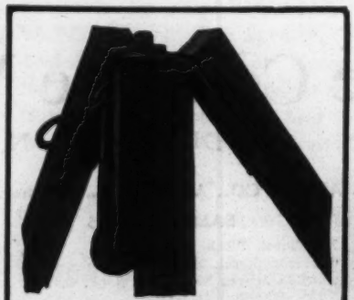

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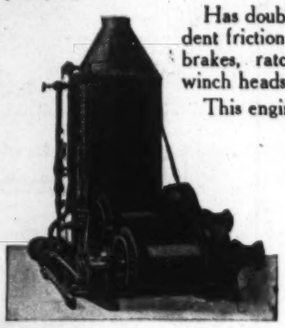

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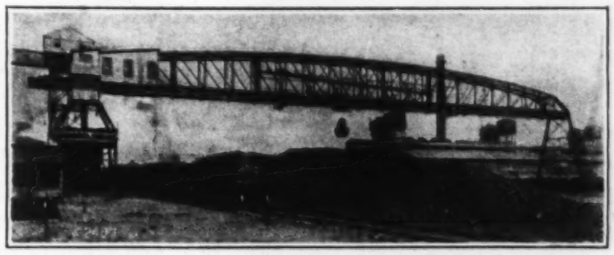

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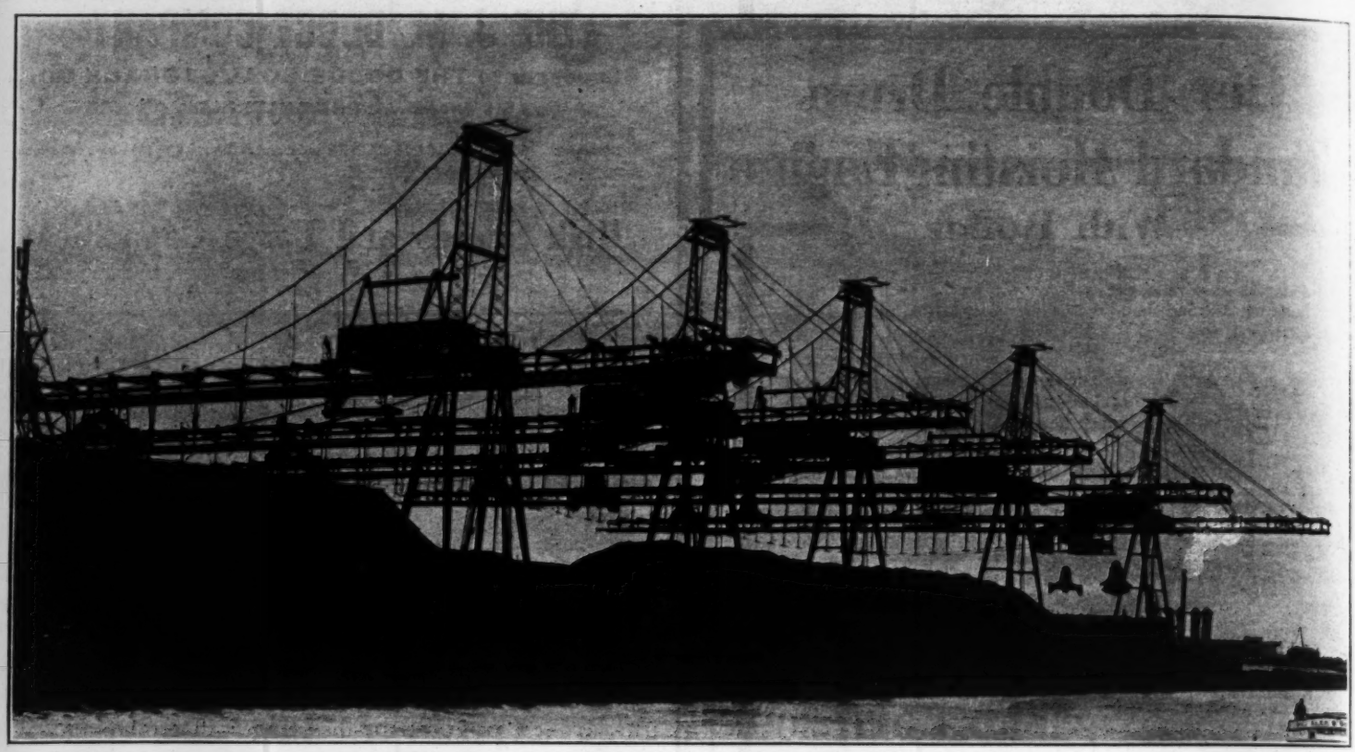

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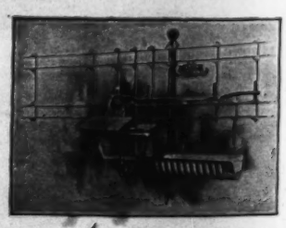

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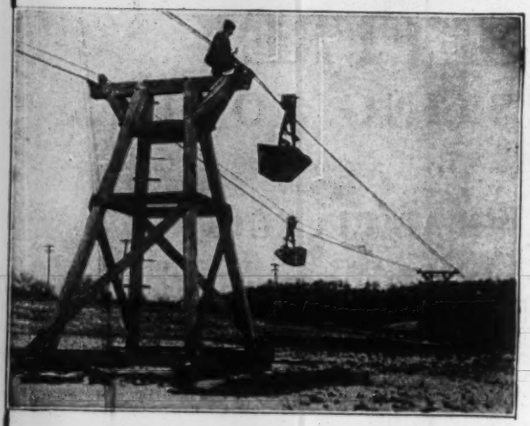

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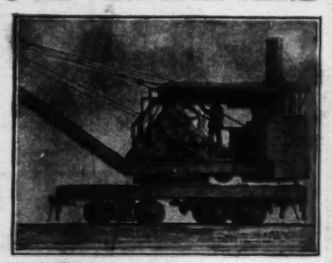

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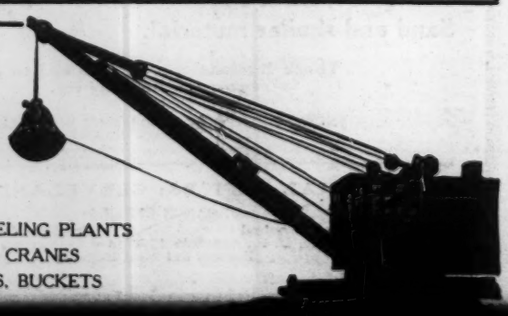

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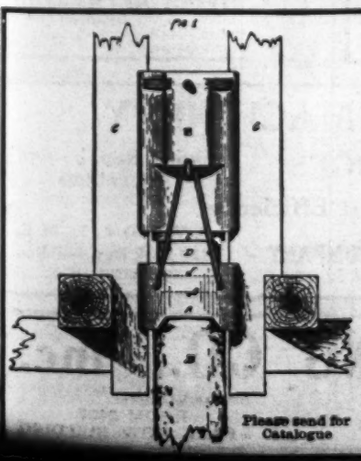

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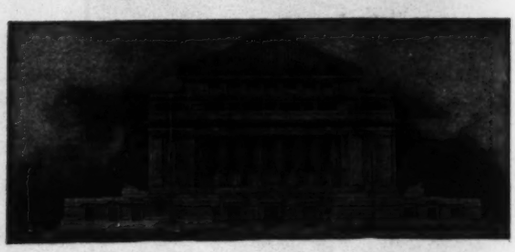

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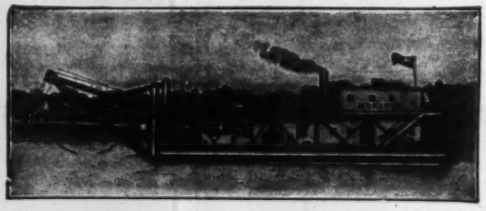

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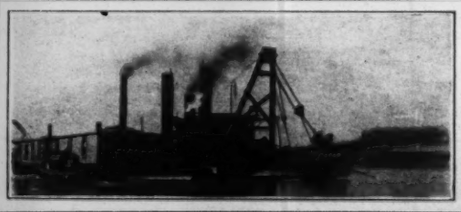

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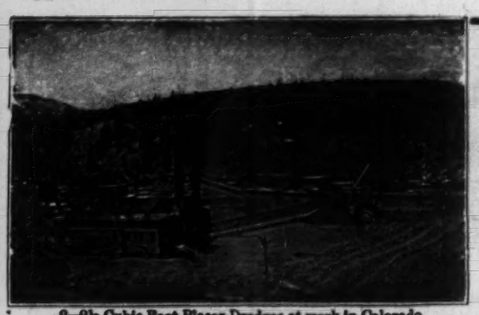

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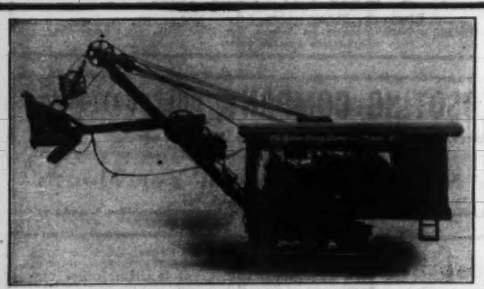

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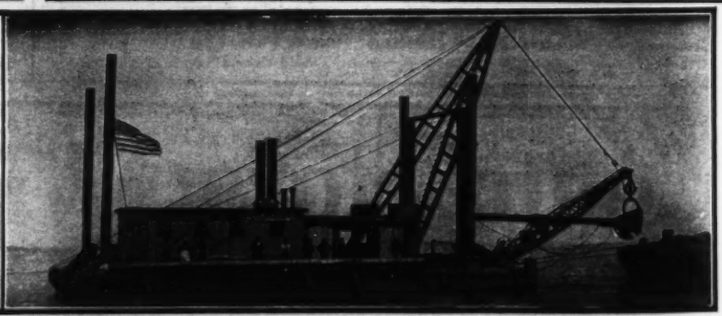

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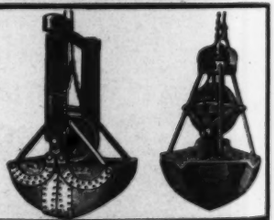

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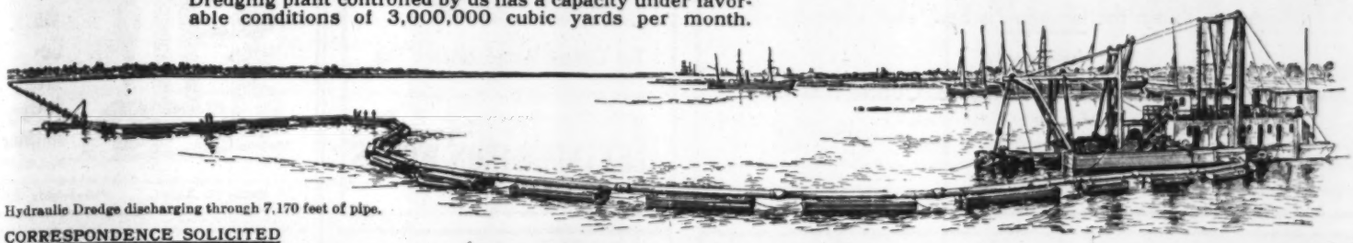

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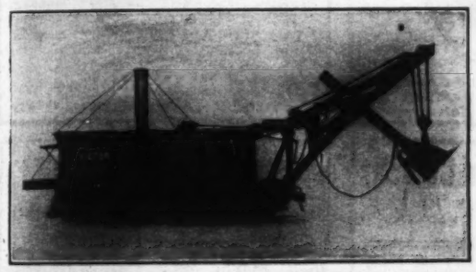

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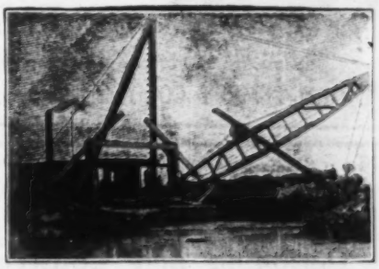

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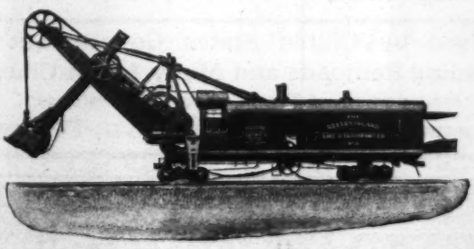

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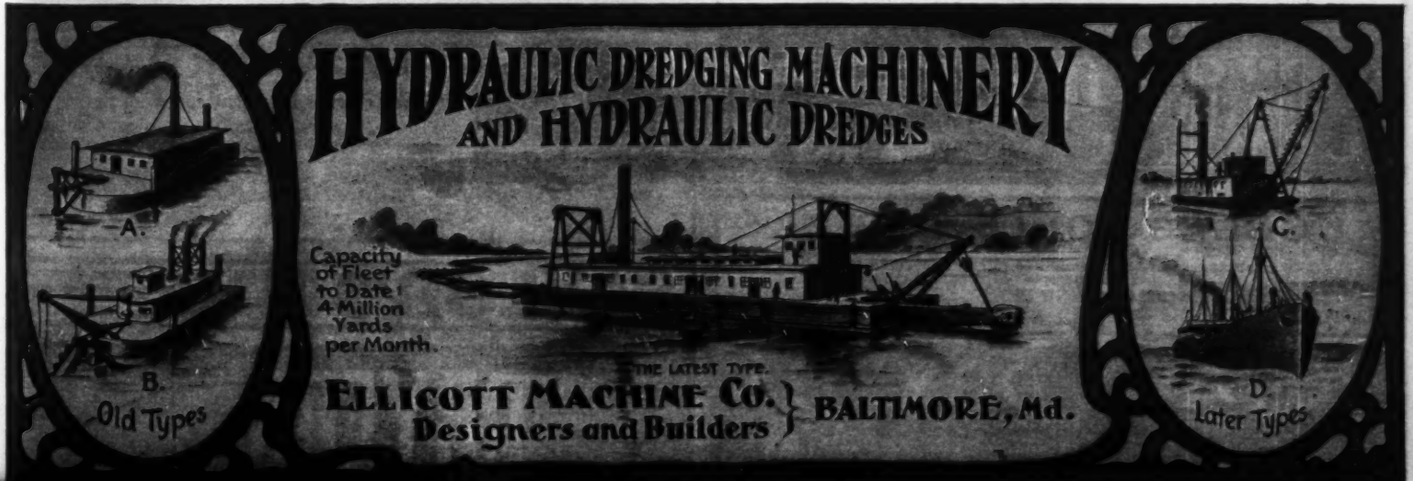

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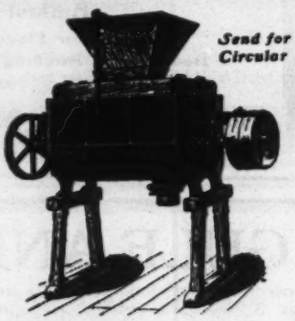

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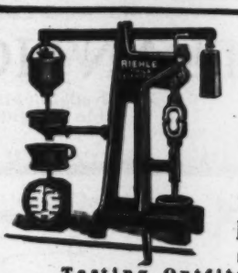

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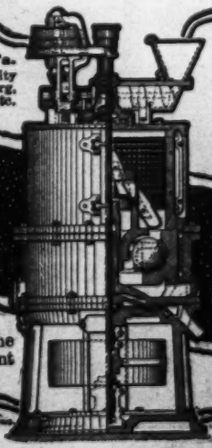

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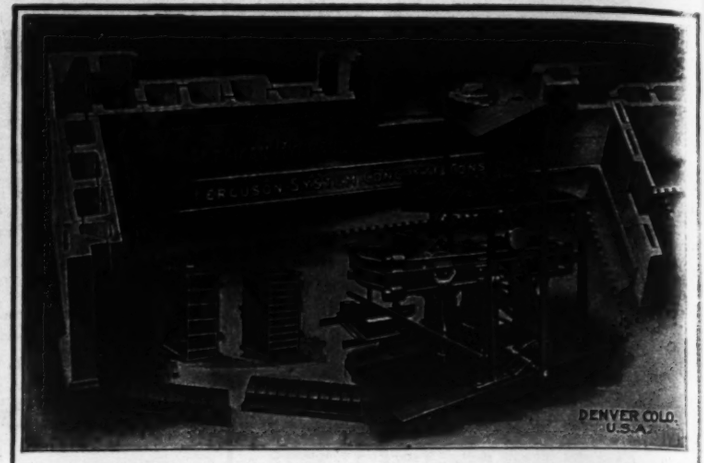

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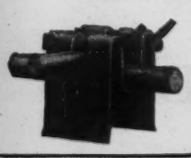

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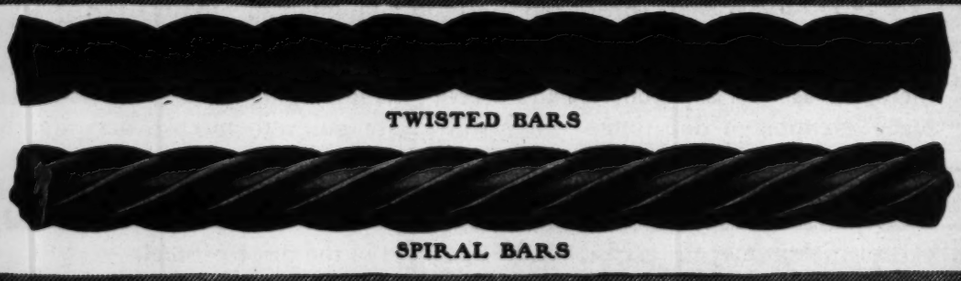

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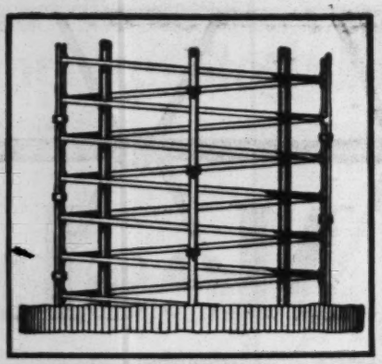

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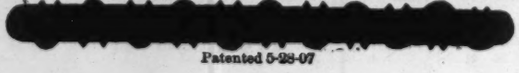

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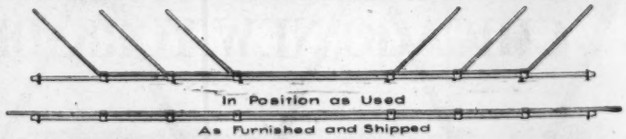

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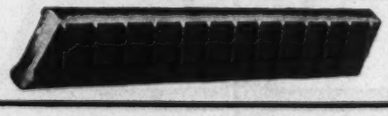

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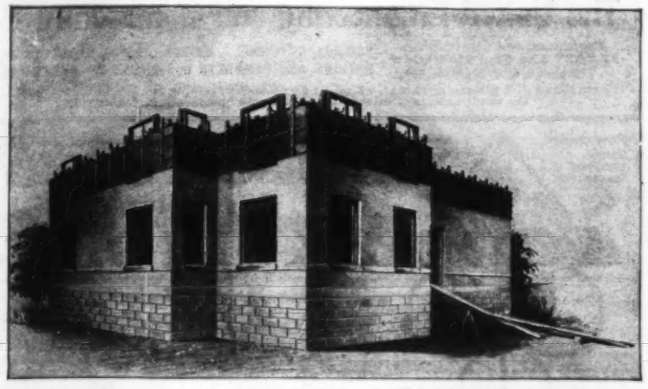

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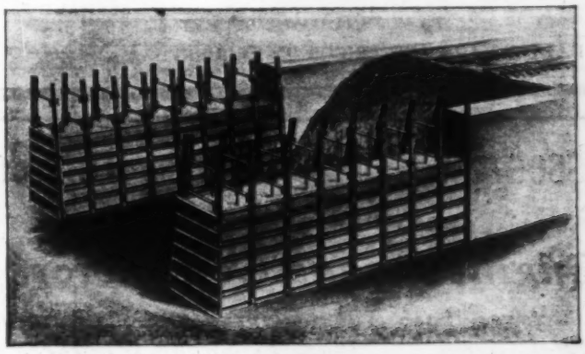

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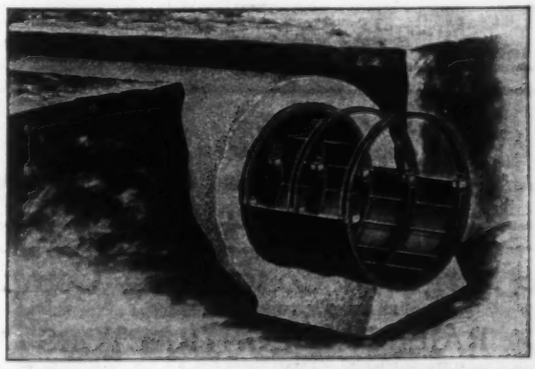

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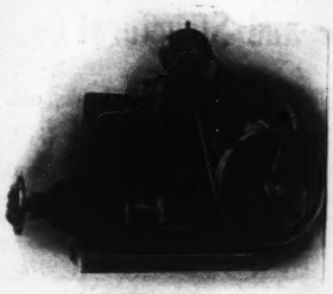

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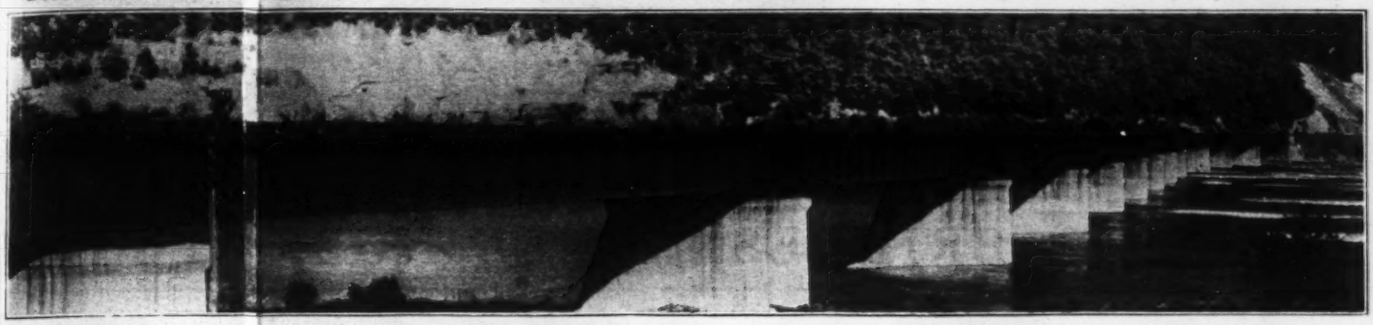

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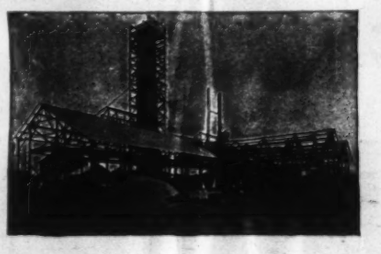

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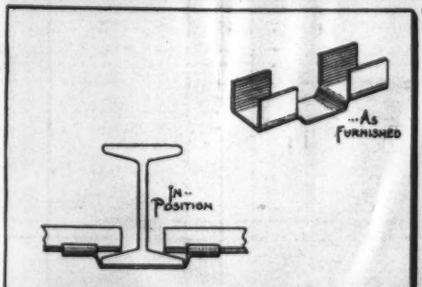

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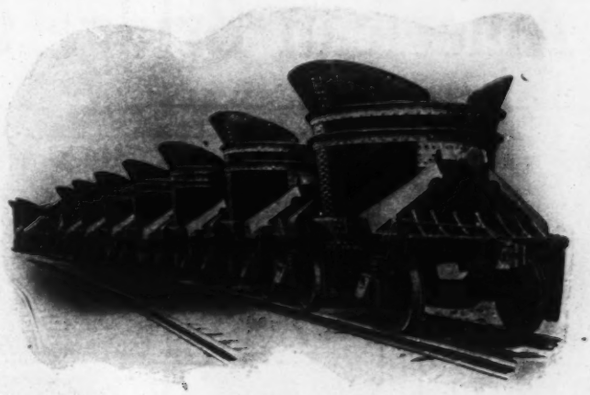

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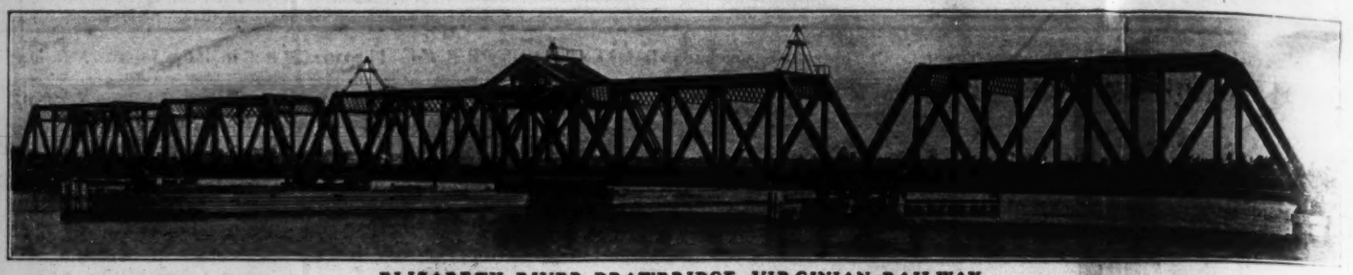

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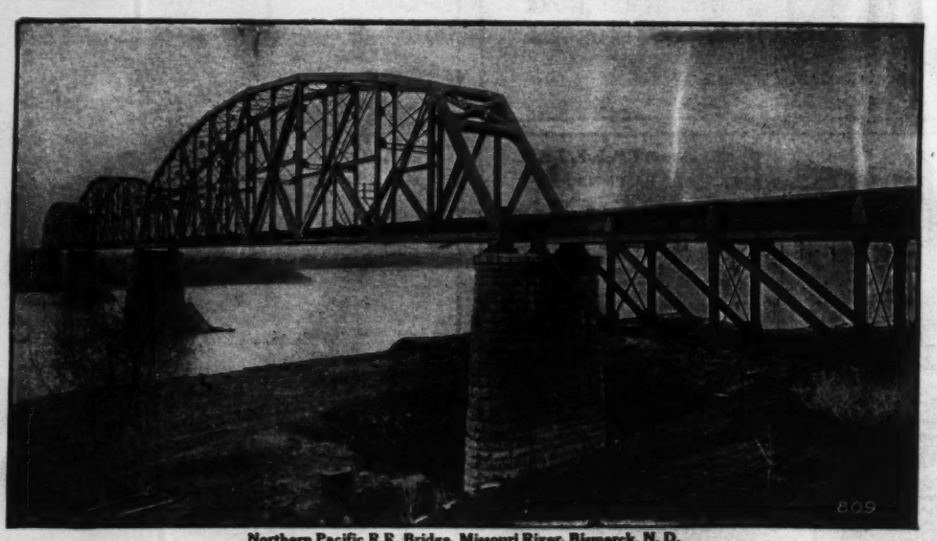

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